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Prasad Somashekhar

Principal Software Architect

Full Stack Developer | Enterprise Solutions Consultant

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20+	9	24	60+	60+
Years of Practice	Industry Domains	Web Applications & Portals	Desktop Applications	Automation Systems

PROFESSIONAL SUMMARY

Principal Software Architect and Enterprise Solutions Consultant with 20+ years of unbroken practice across nine industry domains — **Financial Services, Banking & NBFC, Tax & Regulatory Compliance, Corporate Governance & Audit, HR & People Operations, MIS & Business Intelligence, Education & Institutional Management, Operations & Logistics, and Social Impact & Healthcare**. Every solution in this portfolio was independently conceived, requirements-analysed, architected, and delivered from end to end.

The technology — whether Angular + ASP.NET Core + SQL Server for an enterprise web portal, MS Access + SQL Server for a desktop application, or a scheduled VBA automation — has always been selected to fit the client's infrastructure, regulatory constraints, and budget, not imposed as a preference. The domain expertise, the architecture thinking, and the governance discipline are constant across all three delivery modes. Applications and systems delivered over the past decade continue to operate in active daily production without critical defects — the oldest deployments running continuously for over a decade — a direct result of solving the right problem correctly from inception.

Operates as a single-point architect, analyst, developer, and delivery owner — handling requirements discovery, BRD / TSD authoring, UI/UX prototyping, full-stack development, UAT, and production deployment independently. Consistently delivers production-ready solutions in days where formal IT timelines estimate months.

CORE COMPETENCIES & TECHNICAL SKILLS

DOMAIN EXPERTISE

Financial Services: Bank Reconciliation (BRS / CMS) • Invoice Factoring • Duplicate Payment Prevention • Travel Reconciliation • Treasury & Liquidity Management • Trade Payment Optimisation • Accounts Receivable / Payable

Tax & Compliance: TDS Lifecycle & Statutory Filing • IND AS 109 / EIR Computation • SEZ / STPI Compliance • Form 16A Distribution • LTDC Management • SAP Integration (Bi-Directional)

Governance & Audit: Bank Guarantee Lifecycle • Internal Audit Tracking • Pre-Payment Audit • Maker-Checker Governance • Segregation of Duties • Immutable Audit Logging

Other Domains: ESOP & Equity Management • Payroll & HR Systems • MIS & Business Intelligence • Education & Institutional Management • Healthcare & NGO Operations • Event & Logistics Management

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TECHNOLOGY STACK

Web — Frontend: Angular (v10+) • TypeScript • HTML5 • CSS3 • JavaScript (ES6+) • Bootstrap • Responsive Design

Web — Middleware: ASP.NET Core • C# • RESTful Web API • .NET Framework • JSON

Web — Database: MS SQL Server • T-SQL • Stored Procedures • PostgreSQL • Relational Schema Design • Query Optimisation

Desktop & Office: MS Access (2-Tier) • VBA • MS Excel Automation • MS Outlook VBA • MS Word VBA • MS PowerPoint VBA • Office 365 • PDF Processing

Security & Auth: Azure Active Directory • Microsoft Entra ID • Google Workspace SSO • OAuth 2.0 / OIDC • MFA • RBAC • AES-256 • HTTPS / TLS • CORS • CSP

Integration: SAP ERP (Report Ingestion & Upload File Generation) • 3-Way Reconciliation • ETL Pipelines • Multi-Format Data Ingestion • Mailbox Monitoring & Data Mining

Legacy Web: Adobe Flex • ActionScript • ASP.NET (Classic) • MySQL • Oracle

Analytics & Tools: Power BI • Automated Dashboards • KPI Reporting • Visio • Adobe Suite • UI/UX Wireframing

DOMAIN PORTFOLIO

FINANCIAL RECONCILIATION, BANK OPERATIONS & PAYMENTS

14 solutions · Bank statement reconciliation, invoice factoring, VCC lifecycle, AR management, duplicate payment prevention, invoice submission — 2005 to present

- **Bank & Clearing Account Reconciliation System (BRS & CMS)** *[Leowise · NBFC Client]*

  Angular | ASP.NET Core C# | MS SQL Server

  Automates the complete bank reconciliation cycle — multi-format bank statement ingestion (CSV, Excel, Text, HTML) from secured network folders, cumulative GL dump processing with overlap de-duplication, and a sophisticated rule-based matching engine handling cheque clearances via fuzzy matching, UTR validation for NEFT / RTGS / IMPS / NACH, and retail LAN-based collection matching. Un-reconciled items are auto-categorised into statutory reporting buckets. Role-based governance: Initiator / Validator / Approver / Auditor / Viewer; immutable timestamped audit trail on every action.

- **Enterprise AR Sale (Invoice Factoring) Portal** *[Leowise · Enterprise Corporate Client]*

  Angular | ASP.NET Core C# | MS SQL Server | Azure AD SSO + MFA

  Orchestrates the end-to-end Accounts Receivable sale lifecycle with 3-way reconciliation across Banker Data, internal database, and SAP. Automates bank-specific factoring agreement generation (Excel, Word, PDF), daily payment runs, and fund-request outputs for settled invoices. A dynamic rules engine pre-filters disallowed customers, invoices, and multi-currency / country restrictions. Hold / Release Hold / Reject / Rerun controls at every stage; strict Maker-Checker status-tag sequencing; immutable action log.

- **AR Sale Automation — Desktop** *[Wipro Technologies · 2014–2017]*

  MS Access | MS Excel | MS Word | MS Outlook | VBA

  Earlier-generation solution for the same AR Sale process — 3-way reconciliation (Banker ↔ Local DB ↔ SAP), auto-generation of factoring agreements in Excel, Word, and PDF, and composing / queueing required Outlook emails for dispatch. Generates SAP-compatible upload files. Predecessor to the 3-tier portal above, built when the client's infrastructure did not support a web deployment.

- **Accounts Receivable & DSO Management Platform (AR Tool)** *[Wipro Technologies · 2014–2017]*

  MS SQL Server | MS Access | VBA + SQL

  Comprehensive OTC MIS platform covering the full receivables lifecycle — invoice tracking, submission, part-payments, SOP management, and target-setting. Real-time dashboards at Customer, Group Customer, Agent, Collection Lead, and Overall levels. Central hub for the collections team's day-to-day operations.

  Includes MIS On Demand — an email-triggered self-service module where a BFM sends a customer name in the subject line; the system validates entitlement, applies fuzzy matching for misspelled names, and dispatches a live DSO snapshot to the inbox. Built in 2014 — years before conversational AI made this a mainstream concept.

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- **AXIS VCC & Corporate Travel (GAMA) Reconciliation Portal** *[Leowise · Enterprise Corporate Client]*
  Angular | ASP.NET Core C# | MS SQL Server | Azure AD MFA
  Manages the complete lifecycle of Virtual Credit Cards issued as surety for corporate accommodation bookings. Automates multi-way reconciliation between GAMA / Way2Go booking data and Axis Bank VCC Purchase, Authorization, and Clearance reports. A Swipe Audit module detects fraudulent real-time transaction anomalies (cumulative limit failures, expiry mismatches, cancelled-card swipes). Charge reconciliation engine categorises no-show penalties vs. stay charges; posts accounting entries to SAP with document number; tracks Vendor Payment number upon bank settlement.

- **Axis GAMA VCC Reconciliation — Desktop** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | MS Access | MS Excel | VBA + SQL
  Desktop predecessor to the portal above — tracks VCCs for accommodation bookings, sends daily automated cancellation alerts for completed or cancelled bookings, and enforces Maker-Checker approval for manual exceptions. Built for the same client before infrastructure supported a web deployment.

- **Enterprise Duplicate Payment Check Portal** *[Leowise · Enterprise Client]*
  Angular | ASP.NET Core C# | MS SQL Server | Azure AD
  Prevents duplicate vendor and employee payments through pre-defined validation logic integrated with SAP and internal systems. Maker-Checker reconciliation of banking portal payment data against SAP entries; dynamically maintains country-wise, bank-wise, and account-wise format template mappings. Real-time dashboards track daily productivity across geographically distributed finance teams.

- **Wividus Duplicate Payment Check — Desktop** *[Wipro Technologies · 2014–2017]*
  MS SQL Server | MS Access | MS Excel | MS Outlook | VBA + SQL
  Desktop version of the duplicate payment prevention system — monitors and blocks duplicate vendor and employee payments, reconciles banking portal uploads against SAP, and dynamically maintains multi-country, multi-bank format mappings. Maker-Checker model with automated exception alerts.

- **Anveshana — Mailbox Data Mining & SAP Invoice Submission** *[Wipro Technologies · 2014–2017]*
  MS SQL Server | MS Outlook VBA | SQL
  Monitors a dedicated finance mailbox using intelligent pattern recognition to extract invoice numbers from subject lines, email bodies, and attachments, then submits them directly to SAP for posting. Eliminated the manual SAP posting step entirely; delivers real-time accurate submission data to management.

- **Automated VP Creation — Mailbox Monitoring & Work Allocation** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | MS Access | MS Outlook | VBA + SQL + VBScript
  Monitors multiple vendor invoice mailboxes simultaneously; mines email metadata and queues each attachment in a dashboard; allocates invoices to data-entry users via round-robin logic; auto-emails the generated VP tracking number to the original sender. Reduced VP creation from 6 minutes to under 2 minutes per invoice. Live cross-state productivity dashboard for management.

- **Multi-Client Reconciliation Automation Suite** *[Wipro Technologies · 2014–2017]*
  MS Access | MS Excel | VBA
  Client-specific automations algorithmically matching SAP billing data against client payment data, classifying discrepancies by type, and generating formatted Excel exception reports for remediation.

- **Invoice Submission Automation** *[Wipro Technologies · 2017–2018]*
  MS Access | MS Excel | MS Outlook | VBA
  Reads invoice data from Excel, picks corresponding attachments from a shared folder, and dispatches one precisely-formatted email per invoice. Submission log prevents duplicate dispatches.

- **Multi-Client Submission Automation Suite** *[Wipro Technologies · 2014–2017]*
  MS Access | Adobe Acrobat | VBA
  Extracts structured data from MS Excel invoice files and generates portal-compatible upload files for each client's system, eliminating manual data transcription.

- **Vanijya — Accounts Management System** *[Silhoutte Event Management · 2005–2007]*
  MS Access | VBA
  Bespoke accounting package tracking day-wise income and expenditure; daily expense statements for the Managing Partner; auditor-prescribed statements for tax filing.

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TREASURY, CASH MANAGEMENT & TRADE FINANCE

6 solutions · Liquidity dashboards, trade payment optimisation, GL analysis, prepaid expense management, inter-company invoice tracking — 2007 to present

- **Executive Treasury & Liquidity Management Dashboard** *[Leowise · Corporate Client]*

  Angular | ASP.NET Core C# | MS SQL Server | Google Workspace SSO

  Provides the CFO and corporate treasury with a consolidated real-time view of enterprise-wide cash positions across multiple banking partners and legal entities. An intelligent pipeline monitors group mailboxes, extracts closing balances from diverse formats including password-protected PDFs, and de-duplicates intra-day cumulative overlaps. Executive dashboards: day-wise month views, 2-month weekly tracking, and 12-month moving averages with bank-account-level drill-downs.

- **Enterprise Trade Payment Proposal & Optimisation Engine** *[Leowise · Corporate Client]*

  Angular | ASP.NET Core C# | MS SQL Server | Google Workspace SSO

  Automates vendor payment allocation using a custom rules engine that cross-references SAP financial data with PAN-level vendor criticality, company codes, commercial models, and credit terms. Manages multi-type financial holds (Advertising Income, ADHOC, RTV, BFD, RECO) with full audit trails. Vendor 360° Cockpit classifies MSME vendors and provides real-time short-term liability snapshots. Generates payment proposals in Excel / CSV / ZIP for banking integration; 'Payment on Time' KPI tracker monitors working capital cycles.

- **Vendor Payments Dashboard** *[Wipro Technologies · 2017–2018]*

  MS SQL Server | MS Access | MS Excel | VBA + SQL

  Captures manual inputs from finance users across multiple geographic locations; consolidates into a real-time Daily / Weekly / Custom date-range dashboard with Excel download. Eliminated wait-time and email dependency for manual input collation across cross-border teams.

- **Run Rate Dashboard — Analytical GL Review** *[Wipro Technologies · 2014–2017]*

  MS SQL Server | MS Access | VBA + SQL

  Analytical review tool for monthly, quarterly, and yearly GL balance changes. Team-wise GL classification by risk category; automated stakeholder alerts for pending action items on deviations; document repository for supporting uploads.

- **Prepaid Expenses Automation** *[Wipro Technologies · 2014–2017]*

  MS SQL Server | MS Access | VBA + SQL

  Manages amortisation schedules for prepaid expenses with Maker-Checker review; generates GL entries for SAP posting; reconciliation tracking and supporting document repository.

- **Local Invoice Tracker** *[Wipro Technologies · 2014–2017]*

  MS SQL Server | MS Access | MS Excel | MS Outlook | VBA + SQL

  Automatically forwards invoice data to local partners across multiple countries for local invoice raising; tracks, reconciles, and stores all correspondence and attachments centrally.

TAX, STATUTORY & REGULATORY COMPLIANCE

7 solutions · TDS lifecycle, IND AS 109 EIR computation, FIRC Mapping, SEZ / STPI statutory filing, GST vendor communication — 2012 to present

- **Enterprise Tax (TDS) Lifecycle & Compliance Platform (VETAS)** *[Leowise · Multi-Entity Corporate Client]*

  Angular | ASP.NET Core C# | MS SQL Server | Azure AD MFA

  Automates the complete TDS lifecycle across multiple legal entities, eliminating month-end reconciliation bottlenecks. Consumes SAP transaction data daily to verify TDS accuracy, applying the statutory 20% penal rate for non-filers (specified persons) per Income Tax regulations. Manages LTDC lifecycle with financial-limit monitoring and Maker-Checker rate-change instructions back into SAP. Generates bank-portal remittance files (HDFC, CITI, HSBC). Centrally stores and autonomously distributes Form 16A certificates to 3,000+ vendors; a self-service 'selfie methodology' handles on-demand certificate requests. Entity-wise and GL-wise segregation of duties; live compliance dashboard for senior management.

- **IND AS 109 Loan Amortisation & Accounting Engine** *[Leowise · NBFC Client]*

  MS Access | MS SQL Server

  Automates loan portfolio accounting under the IND AS 109 framework. Batch-ingestion engine processes core banking schedules alongside disbursements, part-prepayments, and foreclosures to compute the Effective Interest Rate (EIR / IRR) with mathematical precision. Amortises transaction costs (processing fees, commissions, subventions) over the behavioural loan tenure using the EIR method. Dynamic cut-off date income recognition produces precise interest income and unbilled accruals for month-end and quarter-end closures. Pre-processing validation flags data anomalies before schedule generation; Maker-Checker compliance for IND AS Accounting and Auditing modules.

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- **FIRC Mapping Automation** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | MS Access | MS Outlook | VBA
  Automated FIRC-to-Softex mapping of 150,000+ line items completed in 20 minutes. The equivalent manual process required 5 person-days. Configurable buffer percentage, cutoff date, master of ignored items, and exception reporting for data-quality issues. One of the highest-impact automation solutions delivered — a 97% reduction in processing time.

- **Tax Compliance — TDS Verification** *[Wipro BPO · 2012–2014]*
  MS SQL Server | MS Access | MS Excel | VBA + SQL
  Compared and verified SAP and billing data to validate TDS accuracy across countries, locations, and contractual terms — the conceptual predecessor to the full-scale VETAS platform, built when the client's scope was limited to a single BPO function.

- **SEZ / STPI Statutory Compliance Application** *[Wipro Technologies · 2014–2017]*
  MS SQL Server | MS Access | VBA + SQL
  Manages statutory filings for SEZ and STPI locations — auto-generates samples and government-portal upload reports, tracks and stores statutory documents, and automatically triggers MIS alerts to stakeholders on compliance gaps or non-filing.

- **GSTN Mail Merge Automation** *[Wipro Technologies · 2017–2018]*
  MS Access | MS Outlook | VBA
  Dispatched HSN Code compliance details to 3,000+ vendors — one consolidated email per vendor covering all applicable open POs — scheduled and dispatched via Outlook without any manual email composition.

- **Multi-Client Submission Automations (Statutory Portal Filing)** *[Wipro Technologies · 2014–2017]*
  MS Access | Adobe Acrobat | VBA
  Client-specific automations extracting data from Excel invoices and generating upload files compatible with each client's statutory government portal format.

CORPORATE GOVERNANCE, AUDIT & RISK MANAGEMENT

7 solutions · Bank guarantee lifecycle, internal audit tracking, pre-payment audit, duplicate alerts, asset protection — 2012 to present

- **Enterprise Bank Guarantee (BG) Lifecycle Management Portal** *[Leowise · Enterprise Client]*
  Angular | ASP.NET Core C# | MS SQL Server | Azure AD
  Digitised the complete BG lifecycle — Issuance, Amendment, Invocation, and Closure — for a 5,000+ user corporate base, replacing a high-risk offline process. Self-service access-request at login. Relational tracking enables treasury teams to navigate between amendments, invocations, and original parent transactions. Dynamic alert engine triggers multi-level escalations at impending expiry to prevent lapsed guarantees and contractual penalties. Real-time exposure dashboards and automated MIS extraction to Excel for month-end treasury reconciliations.

- **Enterprise Internal Audit & Compliance Tracker** *[Leowise · Corporate Client]*
  Angular | ASP.NET Core C# | MS SQL Server | Google Workspace SSO
  Centralised audit management platform covering the full observation lifecycle — creation, process-owner assignment, iterative comment and attachment chains — with an immutable chronological compliance record. Automated daily-digest email engine pushes personalised worklists to process owners and hierarchical roll-ups to managers. Granular RBAC; KPI dashboards with real-time ageing, risk ratings, and status distributions.

- **Pre-Payment Audit Application** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | MS Access | MS Excel | VBA + SQL
  Conducts QA sample audits on invoices before payment release. Intelligent sample selection based on Vendor Type, User Risk Type, Currency, and Amount Bucket — no human intervention in sample picking ensures statistical consistency. Error-flagged items automatically held until resolution. Real-time audit-progress dashboard for team leaders.

- **Alerts Tracker** *[Wipro BPO · 2012–2014]*
  MS SQL Server | MS Access | MS Excel | VBA + SQL
  Team-wide configurable task alert system with triggers by day-of-week, date-in-month, or custom interval; supports cross-user task assignment; personalised daily pending-task view per user.

- **Digital Estate — Secure Code Repository** *[Wipro Technologies · 2014–2017]*
  MS SQL Server | MS Access | VBA + SQL
  Encrypted, access-controlled repository for source code and application designs; automated transfer to designated successor stakeholders upon separation, role transfer, or succession of the primary custodian.

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- **AWOT Bookings Cancellation Report** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | SQL
  Automated daily report providing a 96-hour advance warning on VISA-purpose bookings requiring cancellation; each missed cancellation averages USD 75 in no-show charges. Zero manual intervention.
- **Active Overlapping Bookings Alert** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | SQL
  Daily cross-comparison of all active accommodation bookings to flag date overlaps; items persist until cancelled or check-in elapses, enabling proactive resolution before no-show charges accrue.

HR, PAYROLL & PEOPLE OPERATIONS

6 solutions · ESOP lifecycle, payroll management, non-billability tracking, utilisation analytics — 2007 to present

- **Employee Stock Ownership Plan (ESOP) Management Portal** *[Leowise · NBFC Client]*
  Angular | ASP.NET Core C# | MS SQL Server
  Manages the full ESOP lifecycle for an NBFC — scheme definition, vesting schedule configuration, FMV maintenance, grant allocation, option exercise processing, and resignation handling. Dynamic dashboards track historical FMV trends and Available vs. Outstanding options pool. Distinct secure environments for Admin, Finance, and Employee self-service; complete change-history view logs across all modules.
- **Vethana — Payroll Management System** *[Vijaya College Jayanagar · 2007–2009]*
  MS SQL Server | MS Access | VBA
  Full payroll lifecycle for a college: attendance maintenance, payroll history, end-of-month bank submission statements, PF / Welfare statutory submissions, and Form 16 and ITR generation with acknowledgement — covering all statutory obligations in one system.
- **NB Mailer — Non-Billability Alert System** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | MS Outlook | VBA
  Automated personalised email alerts to employees approaching project release dates; escalation to managers for overdue cases; Outlook integration for bulk scheduling.
- **NB Feedback — Manager Input Consolidation** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | VBA
  Consolidates action-plan inputs from multiple Delivery and Senior Managers for employees approaching project release, providing a single structured view for HR action.
- **Consulting Model — Utilisation Dashboard** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | VBA
  Displays individual employee utilisation, highlights below-threshold resources, and generates Excel summary reports; Active Directory-validated secure access.
- **Business Users Search Tool** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | VBA
  Help-centre dashboard enabling support executives to view employee access privileges by ID, Name, Role, and Organisational Unit; filterable and exportable to Excel.

MIS, BUSINESS INTELLIGENCE & ANALYTICS

10 solutions · Automated report pipelines, executive dashboards, batch MIS generation, pricing analytics — 2011 to present

- **35+ Automated MIS Reports — Enterprise Finance** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | VBA | MS Excel | MS Outlook
  A comprehensive MIS reporting infrastructure delivering reports at 7 AM, 2 PM, and 7 PM daily — fully automated from SQL Server data to recipient inbox. Categories: Business Overview (department-wide KPI projections); User Productivity (daily user-wise actuals, widely adopted by Team Managers); Activity Status (open item ageing against due-date buckets by vendor / company type); Automated Work Allocation (priority-weighted distribution, 3× daily for approvals); Customised Management Reports (SPOC and region-specific at requestor-defined frequencies); and TV Floor Display (real-time dashboard on floor screens, auto-refreshing after each server pull).
- **Auto Report Mailer** *[Wipro Technologies · 2014–2017]*
  MS SQL Server | MS Outlook VBA | MS Excel | SQL
  Processes scheduled SAP data dumps pushed to a pre-defined network folder and generates fully formatted Excel operational reports (Sales Order Queue, Collection Report, Submission Report, Credit Note Queue) distributed automatically at defined schedules.

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- **MIS Generator** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | MS PowerPoint | VBA
  Batch-generates client-specific Excel and PowerPoint MIS reports from month-wise input files; supports batch scheduling for up to 150 clients simultaneously in one run.
- **Business Operations Review PPT Automation** *[Wipro Infotech · 2011–2012]*
  MS Access | MS PowerPoint | VBA
  Converts MS Excel tracker values into a categorised, action-level PowerPoint presentation automatically — eliminating manual slide-building for periodic business reviews.
- **Organisation Chart Generator** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | MS PowerPoint | VBA
  Generates tree-view project hierarchies for any organisational unit with PDF summary reports covering project count, span of control, and performance analytics.
- **Benchmarking Application** *[Wipro BPO · 2012–2014]*
  MS Access | MS Excel | VBA
  Compares deal pricings against up to 5 historical pricings across pre-defined data points; real-time impact analysis of any specified variable change.
- **Pricing Template Automation** *[Wipro BPO · 2012–2014]*
  MS SQL Server | MS Access | MS Excel | VBA + SQL
  Converts deal pricing Excel templates into a central secure database; maintains pricing iterations for comparative analysis and audit.
- **Data Extractors** *[Wipro BPO · 2012–2014]*
  MS Access | MS Excel | VBA
  Processes thousands of Excel input forms, extracts pre-defined data fields, and consolidates into a database-friendly tabular repository for further analysis.
- **Per Person Cost (PPC) Calculator** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | VBA
  Calculates per-person cost by factoring Location, Skill, and Role for the pricing and estimating team.
- **Project Cost Calculator** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | VBA
  Replaces numeric effort values in Resource Loading Sheets with corresponding cost values for project financial modelling.

WORKFLOW, PROCESS & DATA INTELLIGENCE

7 solutions · Cross-domain automation tools: work allocation, email routing, data mapping, file distribution, process documentation — 2005 to present

- **Email Distribution Automation** *[Wipro Technologies · 2014–2017]*
  MS Access | MS Outlook | VBA
  Scans a shared group mailbox and, using keyword pattern matching in subject lines, maps each incoming email to the relevant customer account and auto-routes to the responsible account manager. Eliminated 100% of manual email triage effort from a high-volume group mailbox.
- **Round-Robin Work Allocation Engine** *[Wipro Technologies · 2017–2018]*
  MS SQL Server | SQL
  Priority-weighted invoice allocation across teams based on due date, ageing, vendor type, and currency — executed each morning and 3× daily for approvals; eliminated the daily manual allocation process.
- **Travel Team PDF Converter** *[Wipro Technologies · 2014–2017]*
  MS Access | Adobe Acrobat | VBA
  Converts large aviation-portal PDF downloads to Excel, extracting travel charges, commissions, and reconciliation data for automated downstream processing.
- **Indent Exception Report** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | VBA
  Compares selected columns across two 90,000+ row indent report files and generates a change summary (Added / Changed / Deleted) at individual line-item level.

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- **Indent RLS Generator** *[Wipro Infotech · 2011–2012]*
  MS Access | MS Excel | VBA
  Connects to the central project management server and provides a UI for building Resource Loading Sheet templates, replacing the manual download-input-upload cycle.
- **Billing Automation** *[Wipro BPO · 2012–2014]*
  MS Access | MS Excel | VBA
  Replaced manual invoicing data entry with an automated approach requiring only critical inputs — eliminating transcription errors and significantly reducing processing time.
- **Vistaran — Network File Distribution** *[TESCO HSC · 2010]*
  MS Access | VBA
  Automates copy-paste of reports from a central source folder to multiple destination folders across the corporate network; eliminated daily manual distribution cycle.
- **PMI Database Documentation & Navigation Tool** *[TESCO HSC · 2010]*
  MS Access | VBA
  Complete documentation of an MS Access database with 200 queries, 100 tables, and equal number of reports; parent-child query relationship mapping; navigational interface for logic exploration and knowledge transfer.

EDUCATION, INSTITUTIONAL & SOCIAL IMPACT

9 solutions · Admissions, examinations, attendance, payroll, alumni management, mobile medical units, event logistics, school meal operations — 2007 to present

- **Mobile Medical Unit Operations Portal (Swasthya Sankalp)** *[Leowise · Healthcare NGO]*
  Angular | ASP.NET Core C# | PostgreSQL | Google Workspace SSO
  End-to-end operational and logistics management for an NGO running 20+ Mobile Medical Units across Karnataka and Tamil Nadu. Real-time geo-tagged photographic evidence and beneficiary health record capture guarantees operational authenticity. Granular RBAC: vehicle operators see only their camps; implementation partners oversee their fleet; sponsors monitor only their funded operations. Multi-tier dashboards: project managers track daily fleet and patient volumes; trustees and sponsors access social ROI KPI roll-ups at daily, quarterly, and monthly granularity.
- **Event Logistics & Competition Management Portal (Sourabha)** *[Leowise · Cultural NGO]*
  Angular | ASP.NET Core C# | PostgreSQL | Google Workspace SSO
  Manages inter-college theatre competitions across 35+ institutions and 2,000+ students — real-time attendance tracking, secure ID verification, standardised participant routing printouts, and multi-tier dashboards for executive, day-wise session, and college-wise coordination.
- **School Meal Logistics & Accounting Platform (MISTEA)** *[Leowise · Education Client]*
  Angular | ASP.NET Core C# | MS SQL Server
  Order-to-cash and fulfilment platform for school meal subscriptions — daily delivery note generation, intelligent billing adjustments for holidays and absenteeism, subscription ledger management, automated receipt generation, and monthly MIS for capacity planning.
- **Enterprise Alumni Data & Membership Management Portal** *[Leowise · Educational NGO]*
  Angular | ASP.NET Core C# | MS SQL Server | Microsoft Entra ID SSO
  Digitises onboarding and verification of thousands of alumni for a 35+ year-old NGO. Maker-Checker governance with iterative query routing for document discrepancies. Secure document repository for government-issued IDs; automated generation of standardised physical membership dossiers.
- **Pravesha — College Admissions Automation** *[Vijaya College Jayanagar · 2007–2009]*
  MS SQL Server | MS Access | VBA
  Automates the full admissions lifecycle — merit list display, unique ID seat release, document repository, invoice / ID card / library card generation, and consolidated revenue statements and fee ledgers for accounting and audit compliance.
- **Pareeksha — Examination Automation** *[Vijaya College Jayanagar · 2007–2009]*
  MS SQL Server | MS Access | VBA
  Covers the full Bangalore University examination cycle: Pre-Exam (Invigilator Diary, room-wise question paper statements, barcoded absentee marking sheets); Post-Exam (barcode scanning, consolidated absentee statements, barcoded marks lists); Post-Valuation (marks list processing, class-wise / subject-wise performance graphs).

PRASAD SOMASHEKHAR

Principal Software Architect | Full Stack Developer | Enterprise Solutions Consultant

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- **Upastithi — Student Attendance Management** *[Vijaya College Jayanagar · 2007–2009]*
  MS SQL Server | MS Access | VBA
  Barcoded attendance feedback forms per class / combination / subject; automated scanning and data entry; consolidated attendance statements; class-wise turnout graphs; SMS notification upload file generation for student alerts.
- **Invigilation Allotment** *[Vijaya College Jayanagar · 2007–2009]*
  MS SQL Server | MS Access | VBA
  Automated invigilation duty allocation to lecturers for all college examinations with real-time conflict detection and resolution.
- **SFS College Student Attendance Management System** *[Freelance · 2009–2011]*
  MS SQL Server | MS Access | VBA
  Multi-user, multi-stream attendance management for St. Francis De Sales College; class-wise, lecturer-wise, and student-wise reports for any date range.

CAREER TIMELINE

Period	Organisation	Role / Title	Type
Sep 2018 – Present	**Leowise (Proprietorship)**	Principal Software Architect & Consultant	Independent Consulting
May 2017 – Sep 2018	**Wipro Technologies**	Assistant Manager — Finance Shared Services	Employment
Jul 2014 – Apr 2017	**Wipro Technologies**	Retainer — Finance, Order to Cash	Retainer Contract
Oct 2012 – Jun 2014	**Wipro BPO**	Retainer — Finance	Retainer Contract
Feb 2011 – Aug 2012	**Wipro Infotech**	Consultant — Information Systems	Retainer Contract
Aug 2009 – Feb 2011	**Independent**	Consultant	Consultant
Feb 2007 – Jul 2009	**Vijaya College Jayanagar**	Programmer — Back Office	Employment
Jun 2005 – Feb 2007	**Silhoutte Event Management**	Computer Operator	Employment

EDUCATION

Post Graduate Diploma in Human Resource Management (PGDHRM) *2009*
VVN Evening College | Bangalore University

Bachelor of Commerce — Elective: Finance & Management (B.Com) *2006*
Vijaya College Jayanagar | Bangalore University

ADDITIONAL INFORMATION

- **Business Registration: GST No. 29CZIPS8469Q1ZU | MSME/Udyam: UDYAM-KR-03-0010375**
- Portfolio Website: www.leowise.com
- Languages: English (Full Professional Proficiency) | Kannada (Native / Bilingual Proficiency) | Hindi (Full Professional Proficiency)