

MATHIVANAN LOGANATHAN

Solution Designer | Full-Stack Developer | Lead Software Engineer

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PROFESSIONAL PROFILE

Software development professional and solution designer with 18+ years of experience building, enhancing and integrating business applications, engineering automation, and shaping technical solutions across banking, insurance, telecom, retail and enterprise environments. Combines hands-on development with solution design, technical analysis, testing automation and delivery leadership.

Recent work includes Java/Spring Boot APIs, Svelte-based user interfaces and dashboards, source-code processing tools, and build modernization. Brings additional depth in application modernization and mainframe migration, including automated transformation, data conversion and cross-platform validation.

CORE STRENGTHS

Software & Full-Stack Development Backend services, API development, front-end interfaces and reporting dashboards	Solution Design & Architecture Technical analysis, component design, integration patterns and modernization roadmaps
Automation & Quality Engineering Automated workflows, build engineering, test automation and validation strategies	Data Migration & Integration Data conversion, batch processing, service exposure and system interoperability
Technical Leadership & Delivery Cross-functional coordination, estimation, risk management and team leadership	Legacy Application Modernization Code analysis, re-platforming, technical-debt assessment and migration tooling

TECHNICAL TOOLKIT

Languages Java, JavaScript, TypeScript, Python, PHP, COBOL, PL/I, JCL, REXX	Backend & APIs Spring Boot, API development, microservices, Node.js
Frontend Svelte, JavaScript, TypeScript, UX/UI design	Data & Databases PostgreSQL, MongoDB, SQL Server, DB2, IMS DB, VSAM
Build, Test & Delivery Gradle, Maven, Ant, Azure DevOps, HP UFT, HP ALM, JIRA, Confluence	Platforms & Operations Docker, IBM BPM, Micro Focus, Control-M, mainframe environments

PROFESSIONAL EXPERIENCE

Technology Consultant / Software Engineer | Hewlett Packard Enterprise (HPE) | 2022–Present

Contribute to the Mainframe Alternative Center of Excellence, enhancing Flyway, an engineering tool used in automated application transformation and modernization engagements.

- Develop and maintain parsers and transformers that process legacy application artefacts, including COBOL, JCL and CICS, transformation for supported modern platforms.
- Build Spring Boot APIs to expose tool capabilities, analysis features and reports for use by customer applications, developers and third-party tools.
- Create a Svelte-based frontend and dashboard for granular application-inventory views, interactive report review and customer feedback.
- Modernize the build process from Ant to Gradle, simplifying and standardizing builds and preparing the tool for future automation and CI/CD integration.

PROFESSIONAL EXPERIENCE

Modernization Consultant / Technical Architect | Capgemini | 2017-2022

Delivered application modernization, data-migration, analysis and automation work for enterprise clients. Activities included solution design, technical assessment, test strategy, migration validation and leading delivery teams.

Selected client engagements

- AG Insurance | Designed a risk-based strategy for testing complex batch applications moving from mainframes to Windows/Micro Focus. Automated EBCDIC-to-ASCII file conversion and coordinated batch execution and result validation across both platforms.
- The Hartford | Identified 40+ opportunities to improve CPU efficiency and mainframe cost utilization; led a 10-person team through analysis, testing and recommendations.
- Aegon | Designed a reusable, region-independent data-migration process and led a 14-person team to refine automation and delivery quality. Migration artefacts could be reused across test, pre-production and production regions.
- DealerTrack / Cox Automotive | Defined a modernization roadmap for a dealer-management application, decomposed components into candidate microservices, and created automation for technical-debt, job-card and feature reporting.
- Barclays | Componentized a core cards application by business function, identified approximately 40% of components as technical debt, and introduced governance and automated analysis for CRUD and file-impact reporting.

SELECTED PRODUCT ENGINEERING

Contributed to the design and development of reusable in-house tools and products used across customer modernization and delivery engagements.

Flyway	Transforms mainframe code to modern platforms like MicroFocus. MFA's backbone, a Java app, to analyze and transform legacy application code using ANTLR3 and ANTLR4 based grammar
CAP360 Analyzer	Static and dynamic source-code analysis, technical-debt insights and digital-transformation recommendations; used to analyze close to 200 million lines of code across customer engagements.
DCC	Data conversion and comparison for migration and validation across IMS DB, DB2, VSAM, tape and flat files, with target data stores including SQL and MongoDB.
BREAD	Business Rules Extractor, Aggregator and Documenter; applies pattern-matching techniques to identify and document business rules in legacy applications.
DAMM	DevOps and delivery-monitoring views that help teams track implementation progress and identify areas for improvement.
CapCover	Code-coverage support for large rehosting projects, recording code references exercised by test data and feeding coverage reports.
Deployment File Creation	Automated creation of required deployment files using a Six Sigma DMADV approach; reduced deployment preparation effort from 80 hours to 4 hours.

ADDITIONAL CONTRIBUTIONS

- Supported digital-transformation proposals and RFP responses through technical recommendations, solution options and estimates.
- Conducted proofs of concept to evaluate technology-stack suitability and architectural direction; supported complex delivery issues across legacy customer engagements.
- Contributed to testing automation, data migration, mainframe performance optimization and presales support alongside core modernization responsibilities.

EARLIER CAREER EXPERIENCE

Solution Designer / Technical Lead / Software Developer | Tata Consultancy Services (TCS) | 2007–2017

Worked with development teams serving banking, insurance, retail, telecom and aerospace clients. Combined application design and development with integration, workflow automation, technical leadership and delivery responsibilities, including coordination of development and testing professionals.

Selected assignments

- Royal Bank of Scotland | IBM BPM Developer / Integration Architect. Developed a lending application from the ground up to manage business and commercial lending requests through the customer lifecycle across multiple banking brands.
- Boeing | Technical Lead / Project Manager / Automation Consultant. Worked on a wiring information and release system supporting configuration management of electrical-wiring information across commercial aircraft models.
- Eircom | Mainframe Developer / Technical Lead / Project Manager. Supported a core billing system covering ordering, billing, payments and customer care for residential and wholesale services; the system issued bills totaling €1.25 billion annually to 1.5 million customers.
- Nielsen | Mainframe Developer / Technical Lead / Project Manager. Contributed to a media-research system providing national and local television-audience measurement.

SELECTED ACHIEVEMENTS & LEADERSHIP

- Received Customer Delight and Innovation awards at Capgemini in 2019 and 2020 for mainframe re-platforming and product development.
- Received six On-the-Spot Awards for delivery and team development, and 1,500+ HPE Star Points for multiple deliveries and initiatives.
- Received 3 Best Team Awards while leading teams delivering parallel projects on time, within budget and to quality expectations.
- Led teams of 25+ members on modernization engagements and a team of 10+ development and testing professionals in software delivery.
- Six Sigma Green Belt: applied the DMADV approach to a deployment-file automation tool, reducing deployment preparation effort from 80 hours to 4 hours.
- Conducted 50+ technical interviews for recruitment and industry/college partner initiatives.

EDUCATION & CERTIFICATION

Bachelor of Engineering in Computer Science | Anna University | 2002–2006

Certification: Six Sigma Green Belt