

SIVARAJAN N.

Engineering Head | Product Owner | CTO | Systems Architect

Chennai, India (Open to Global Remote)

Email: n.siva.rajan@hotmail.com | Phone: +91 98421 46406

LinkedIn: [linkedin.com/in/nsivarajan](https://www.linkedin.com/in/nsivarajan) | GitHub: github.com/ns-rajan | Portfolio: sivarajan.in

PROFESSIONAL SUMMARY

Visionary, execution-oriented Chief Technology Officer and Enterprise Systems Architect with over 30 years of experience driving platform modernization, scaling global engineering organizations, and directing high-concurrency SaaS ecosystems. Proven track record owning \$20M+ P&L portfolios and commanding distributed engineering divisions of up to 900+ technical professionals across multiple practice areas. Expert in transforming monolithic enterprise legacy systems into resilient, cloud-native microservice architectures, embedding predictive AI into transactional workflows, and establishing high-trust developer cultures with 30-40% velocity improvements.

TECHNICAL SKILLS

Systems Architecture: Microservices, Event-Driven Architecture, Multi-Tenant SaaS, Monolithic Modernization, CQRS Read-Projections, PostgreSQL (JSONB), NoSQL (MongoDB), Docker, Kubernetes, Terraform.

AI & Data Engineering: Applied AI Workflows, RAG Pipelines, MLOps, Predictive Transactional Risk, Python (PyTorch, TensorFlow, Pandas), AWS Data Lakehouse, Kafka, Spark, Vector Storage, Connection Pooling (PgBouncer).

Engineering Leadership & Operations: Global Team Scaling (10 to 900+ members), P&L Management (\$20M+), Global Capability Center (GCC) Incubation, Vendor & SI Management, Technical Due Diligence.

DevOps & Quality: CI/CD Pipeline Automation, QA Framework Standardization, Agile/Scrum Leadership (CSPO/CSM), TDD, Test Coverage Optimization (80-90%), AI-Assisted Development (GitHub Copilot, Cursor).

Languages:

English (C2 - Proficient),

Tamil (C2 - Native),

Portuguese (A1 - Learning).

Hindi (A2 - Speaking).

Kannada, Malayalam (A1 - Learning)

PROFESSIONAL EXPERIENCE

Fractional CTO & AI Strategy Advisor | Venture-Backed Scale-ups

Remote (EU/UK/Global) | June 2025 – Present

- **Executive Advisory & Product Architecture:** Formulate AI-first product roadmaps for FinTech, PropTech, and Healthcare scale-ups, transitioning legacy platforms into scalable, multi-tenant cloud architectures.
- **Cross-Border Vendor & Delivery Management:** Spearheaded zero-to-one technical specifications, system architecture documentation, and international vendor governance for a Swiss mobile health platform scale-up, coordinating Zurich design teams and Mumbai engineering squads to PoC delivery.
- **AI-Native Capability Building:** Incubated and established high-velocity AI-Native development capability centers in Chennai, training and steering engineering squads in MLOps, vector indexing, and agentic workflows.

Chief Technology Officer | Valor PayTech LLC

New York, NY & Chennai, India | January 2024 – May 2025

- Re-platformed a high-concurrency US credit card processing SaaS platform from legacy monolithic software into cloud-native microservices.
- Scaled cross-border engineering operations, expanding the Chennai development center to 40+ senior software professionals while managing US executive integration.
- Resolved database connection pooling starvation under peak transactional loads using custom proxies (PgBouncer), reducing system production incidents by 40%.
- Embedded predictive machine learning models for real-time fraud detection and risk assessment directly into the core SaaS CRM.

CTO & Head of Technology - APAC | BornGroup XDS (Tech Mahindra)

APAC / Remote | June 2022 – December 2023

- Directed an 1,100+ member engineering organization owning a \$20M+ delivery portfolio across 10+ enterprise commerce ecosystems.
- Operationalized APAC delivery strength across 900+ technical professionals spanning 8 practice areas, expanding regional capacity by 30%.
- Incubated and launched dedicated Enterprise Engineering and Order Management Systems (OMS) practices from concept to full scale.
- Introduced organization-wide AI-assisted development tools (GitHub Copilot) and standardized CI/CD deployment frameworks, improving release velocity by 30-40%.

Product CTO & Engineering Manager | Aurea Software

Austin, TX (Remote) | October 2017 – June 2022

- Served as Product Owner and Engineering Manager for flagship SaaS products (Kayako Classic, TNK, MyAlerts), directing global teams of architects and developers.
- Architected big data customer journey analytics systems on AWS, managing high-throughput data streams.
- Standardized QA automation frameworks across 100+ enterprise SaaS products, increasing automated test coverage from legacy baselines to 80-90% using Gherkin-based frameworks.

Director of Technology | ChannelLive.tv

Chicago, IL & Chennai, India | March 2014 – June 2016

- Built a technology team from scratch and owned end-to-end cloud infrastructure for media streaming platforms.
- Designed highly available video streaming architectures and content delivery mechanics optimized for multi-device consumption.

Senior Engineering roles | Startups, Enterprises, Product Org.

India, US, UK | Jun 1994 – Mar 2014

- Started as a Programmer and grew to be a Tech Lead/Architect.
- Worked in the USA for 5 years on H1B Visa during Dot-Com Boom time.

EDUCATION & ACADEMIC CREDENTIALS

Master of Technology (M.Tech) in Data Science & Engineering | BITS Pilani (2024)

Diploma in Data Science (BS Program) | IIT Madras (2025) — Awarded "Best Project Award"

Master of Business Administration (MBA) in Operations | IGNOU (2011)

Master of Arts (M.A.) in Journalism | Madurai Kamaraj University (2012) — University Gold Medalist

Bachelor of Engineering (B.E.) in Mechanical Engineering | GCT Coimbatore (1994) — First Class with Distinction

Executive Education: **Mastering Design Thinking** | MIT Executive Education (2020)

Executive Program: **Platform Thinking** & Digital Business Models | Politecnico di Milano (2025)

Professional Certifications: **Certified Data Scientist** (Johns Hopkins), CSPO & CSM

SPECIALIZED AI & EMPIRICAL INDUSTRIAL PROJECTS

Generative AI Healthcare Platform

Architected an asynchronous Python RAG pipeline with LangChain and vector databases to parse clinical records under strict LLMOps, observability, and HIPAA protocols.

Predictive Risk Engine

Built a hybrid real-time ML fraud detection pipeline with SHAP-based explainability and drift monitoring integrated into an enterprise credit card SaaS CRM.