

# Ganesh Gunasegaran

Architect | Full-Stack Engineering | AI & Scalable Systems

Chennai, India · India/Global Remote

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## PROFESSIONAL SUMMARY

- Architect focused on AI-native and scalable platform systems across telecom, fintech, and cloud.
- Builds production-grade systems end-to-end: architecture, delivery, reliability, and technical leadership.
- Strong track record in modernization, cross-functional execution, and mentoring high-performing teams.

## CORE SKILLS

- **Architecture & Platform:** System Design, Distributed Systems, API Architecture, Event-Driven Systems, Platform Modernization
- **Engineering Leadership:** Technical Strategy, Cross-Functional Delivery, Mentorship, Code Quality, Operational Excellence
- **Backend & APIs:** Ruby on Rails, Kotlin, Java/Spring Boot, Node.js/Express, Python/Flask, REST, GraphQL, gRPC
- **Frontend & Product:** React, Vue.js, Angular, TypeScript, SPA/Micro-Frontends, Design Systems
- **Cloud & Data:** PostgreSQL, MySQL, Redis, MongoDB, Docker, Kubernetes, Terraform, CI/CD, GitOps
- **AI Systems:** Applied AI, LLM Systems, RAG, Vector Search (pgvector), Prompt Engineering, Predictive Systems

## PROFESSIONAL EXPERIENCE

### Fluxon – Remote

Staff Software Engineer · Jun 2025 – Present

Key project: *Google Sustainability Performance Hub*

- Lead architecture and delivery across cross-functional product and engineering stakeholders.
- Build Angular/TypeScript interfaces that simplify complex internal workflows.
- Develop Kotlin services and integrations that improve enterprise data-flow reliability.
- Drive engineering standards and technical alignment to improve delivery quality.
- Delivered sustainability platform capabilities supporting operational and reporting workflows.
- **Project Skills:** Angular, TypeScript, Kotlin, API Architecture, System Design

### Turing – Remote

Full Stack Architect · Feb 2022 – May 2025

Key projects: *Lebara, Q.ai (Forbes), b-cube.ai, Buzz Solutions*

- Drove architecture across client projects in telecom, AI investing, and predictive analytics.

- **Lebara (Telecom):** Produced HLIA/TIA assessments, defined modernization paths, and evaluated payment/MNO/money-transfer integrations and authored API gateway blueprints and reviewed scalability implications before rollout.
  - **Q.ai (AI Investing):** Led backend execution with ML teams, built real-time metrics services in Python/Flask/Pandas (improving analytics efficiency by 40%), and designed federated API patterns across Rails, Kotlin, Python, and Java/Spring Boot.
  - **b-cube.ai (Trading Systems):** Developed AI-assisted trading strategies and high-performance JavaScript tooling for execution workflows.
  - **Buzz Solutions (Predictive Analytics):** Rebuilt operator dashboards in Vue.js, split monolithic components into Node.js/Express services, trained fault-detection models in Python/PyTorch, and implemented GitOps delivery on GCP.
  - **Project Skills:** Distributed Systems, API Architecture, Python, Node.js, TypeScript, Kubernetes, GitOps
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## **Bukukas (Lummo) – Remote**

**Chief Architect** · Dec 2020 – Feb 2022

- Architected core fintech systems across campaigns, payments, and notifications in collaboration with product, growth, and operations teams.
  - Designed campaign and gamification flows that delivered >2x user participation.
  - Built a unified notification service (SMS, WhatsApp, push, WebSocket) with provider failover.
  - Led Bukukas Pay architecture for P2P and merchant transaction journeys.
  - Implemented fraud controls, OTP verification, and transaction observability.
  - **Project Skills:** Ruby on Rails, gRPC, WebSockets, Payment Systems, Fraud Detection, Observability
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## **BigBinary – Remote**

**Senior Architect** · Aug 2019 – Nov 2020

- Delivered core Neeto capabilities including Stripe payments and desktop tooling.
  - Built cross-platform applications using Electron, React, and React Native.
  - Implemented customizable PDF reporting for customer workflows.
  - Led design-system and component refactors to improve consistency and reuse.
  - **Project Skills:** Ruby on Rails, React, React Native, Electron, Stripe, Design Systems
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## **MoneySmart – Bengaluru**

**Senior Software Architect** · Jan 2018 – Jul 2019

- Migrated insurance modules from monolith to Rails-based services.
  - Built micro-frontend SPA architecture for independent module delivery.
  - Developed reusable lead-provider connectors as Ruby Gems.
  - Created the “Rocketship” design system in Vue.js and drove shared platform standards.
  - **Project Skills:** Ruby on Rails, Microservices, Micro-Frontends, Vue.js, API Integrations
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## **Crossover (EngineYard) – Remote**

**Chief Software Architect** · Jan 2017 – Dec 2017

- Added platform support for Node.js and Elixir/Phoenix workloads.
- Modernized the dashboard from Merb/Backbone to Rails + React.
- Refactored monolithic services into modular microservices.
- Architected billing, ledger, and addons services.

- **Project Skills:** Ruby on Rails, React, Node.js, Elixir/Phoenix, Microservices, Cloud Platform Engineering
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## **Akshi — Puducherry**

**Founder** · Jan 2013 – Nov 2016

- Founded and architected a social learning platform for teachers and students.
  - Built Rails backend services for real-time classroom and content workflows.
  - Developed custom adaptive-bitrate live video streaming.
  - Implemented virtual classrooms with live video, chat, and whiteboarding.
  - Scaled the platform to support 4,000+ concurrent students.
  - **Project Skills:** Ruby on Rails, Real-Time Systems, Video Streaming, System Design, EdTech Platforms
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## **Pramati Technologies — Chennai**

**Architect** · Jan 2014 – Nov 2016

- Led mobility and machine-learning initiatives across client programs.
  - Delivered systems using Rails, Java/Spring, Angular, and Spark.
  - Drove open-source adoption and engineering standards.
  - Designed AI analytics workflows using SAP HANA and ML components.
  - **Project Skills:** Ruby on Rails, Java/Spring, Angular, Spark, SAP HANA, Machine Learning
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## **SageWork — Puducherry**

**Founder** · Nov 2008 – Dec 2013

- Founded and scaled a consulting firm delivering web and mobile products.
  - Led engineering teams across concurrent startup and enterprise projects.
  - Architected backend systems for complex business workflows.
  - Delivered products using Rails, JavaScript/jQuery, and Titanium Native.
  - **Project Skills:** Ruby on Rails, JavaScript, Titanium Native, Consulting Delivery, System Architecture
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## **RevenueMed — Atlanta**

**Development Manager** · Dec 2007 – Oct 2008

- Led development of medical coding and billing workflow applications.
  - Built WordPress/PHP LMS modules for coder training.
  - Developed an interactive molecular data-mining tool for research teams.
  - **Project Skills:** Ruby on Rails, PHP/WordPress, Workflow Automation, Healthcare Systems
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## **IBM/HCL — Chennai**

**Team Leader** · Jun 2003 – Sep 2007

- Led the team responsible for porting WebSphere MQ Series to Tandem NSK (C/POSIX), enabling reliable cross-platform enterprise messaging.
  - Designed and implemented a core SSL module in C/POSIX, strengthening security in enterprise application environments.
  - **Project Skills:** C/POSIX, WebSphere MQ, SSL/TLS, Enterprise Messaging, Systems Programming
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## SELECTED PROJECT

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### **Kalvi.ai – Outcome-Verified Learning System**

Architected an AI-native learning platform focused on durable understanding and retention.

- Built an LLM-native learning system using Python/FastAPI with agent orchestration patterns and protocol-level safety boundaries.
  - Implemented RAG and vector retrieval workflows (pgvector/PostgreSQL) with evidence-compounding validation for curriculum reliability.
  - Developed adaptive optimization strategies for personalized learning progression.
  - Established production observability and reliability with OpenTelemetry tracing, async services, Redis-backed workflows, and automated test coverage.
  - **Project Skills:** LLM Systems, RAG, FastAPI, pgvector/PostgreSQL, OpenTelemetry, Redis, Prompt Engineering
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## EDUCATION

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### **B.Tech. (Distinction with Honours)**

Pondicherry University, Puducherry