SIVAGURU RAVI

SENIOR FULL STACK ENGINEER

Bangalore, India
sivagururravi94@gmail.com
+91 90207 08677
linkedin.com/in/sivaguru-ravi

CORE SKILLS

AI / Agentic Dev
Custom MCP servers • Claude skills (team-wide) • Claude Code • LLM / GenAI

Backend & APIs
Java 8/11/17 • Spring Boot 2.x/3.x • Node.js / Express • Microservices • REST • Camunda BPM

Messaging & Async
RabbitMQ • Kafka • Routing keys • Dead-letter queues • Async pipelines • Resilience4j

Frontend
Angular 2–16 (Signals) • React.js • TypeScript • RxJS • NgRx • Electron

Identity & Security
OAuth 2.0 • SSO (Nylas) • Spring Security • RBAC • OWASP • Semgrep • TruffleHog

Data & Caching
MongoDB • PostgreSQL • MySQL • Redis • Elasticsearch

Cloud, DevOps & Obs.
AWS (EC2, S3, Lambda) • Docker • Kubernetes • Jenkins • Azure Pipelines • CI/CD • Grafana

LANGUAGES

English Professional
Tamil Native
Kannada Conversational
Hindi Conversational

Senior **Full Stack Engineer** with 9+ years across Angular/React front ends and **Java Spring Boot / Node.js** back ends, with real depth in **backend and event-driven distributed systems**. Designs asynchronous, queue-based architectures that remove bottlenecks and absorb downstream rate limits; builds resilient services (Resilience4j, back-off, bounded retries, dead-letter handling) on **RabbitMQ + Kafka** at document-processing scale; and has shipped **identity / SSO** integration (Nylas multi-provider SSO). Pioneered team-wide **agentic development** (custom Claude skills + MCP servers). Ships 0-to-1 prototypes under ambiguity and turns them into production systems; Cross-Team UI Technical Lead (50+ engineers) and quarterly delivery Pod Lead.

PROFESSIONAL EXPERIENCE

Infrrd Inc — Aug 2023 – Present

Technical Specialist (Senior Full Stack Engineer) • Bangalore

- Pioneered a **team-wide agentic coding operating model** — authored custom Claude skills and MCP servers to standardize AI-assisted development across the org, cutting POC/feature cycles 30–50%.
- Re-architected a synchronous LLM re-extraction path that was hitting **LLM-API rate limits** into an **asynchronous, queue-driven pipeline**: the request returns HTTP 204 + a unique key and enqueues work with a per-request **routing key**; the predictor service consumes by module / LLM-bot / field-type and writes results to an extraction store keyed by routing key + module; the UI **polls the key and non-blockingly patches** fields — removing the correction bottleneck and absorbing downstream rate limits.
- Operate intelligent document processing at scale — **RabbitMQ**-driven pipelines processing **lakhs of documents daily**; designed a **Failed Page Handler** for resilient OCR/PDF failure handling (bounded retries, failure isolation).
- Built a **Nylas integration** enabling **multi-provider SSO / OAuth** authentication into a customer product.
- Architected and single-handedly built **Annie UI** end-to-end via an AI-assisted (agentic) workflow — shipping **6 MVPs** in fast phased releases (50+ screens, Angular Signals, RxJS); drove the **Titan UI** legacy Angular 8→14 upgrade, cutting build time ~3x.
- Own production reliability via dev-support — resolving daily **scaling and stability** issues with **Grafana** monitoring; cross-team technical lead and delivery pod lead; built an OSS security framework (ESLint, npm audit, OWASP, Semgrep, TruffleHog).

Philips — Dec 2021 – Jul 2023

Software Technologist 1 • Bangalore

- Full Stack Lead for healthcare products on **Spring Boot** + Angular microservices; implemented **product-wide external-API back-off and resilience with Resilience4j** and **event-driven service flows on Kafka**.
- Bootstrapped **role-based API security** in Spring Boot with integrated test suites; built Azure Pipeline automation for nightly releases; mentored interns.

Infrrd Inc — May 2020 – Nov 2021

Senior Software Engineer, UI • Bangalore

- Built a **Python/Boto3 SDK for AWS resource automation**, cutting manual infrastructure work 60%.
- Created a plug-and-play OpenCV.js image-processing SDK for user-uploaded image pre-processing; integrated a third-party ESP API into Angular products.

PathPartner Technology — Dec 2019 – May 2020

Senior Software Engineer • Bangalore

- IoT / embedded R&D: BLE Mesh telemetry (Zephyr BLE Mesh, Nordic Mesh SDK); a near-ultrasonic FSK+CRC encoder-decoder; compiler/processor optimization; Python audio-comparison tooling against Dolby standards.

Mindtree Ltd — Feb 2017 – Nov 2019

Senior Software Engineer • Bangalore

- As senior engineer, delivered the **3D beam-projection overlay** within the **Bose Videobar VB1** configuration app (Angular 8 + Electron; one module of a larger app) — rendering the six beam-steering microphones' 3D audio-pickup beams over a live 4K camera video stream, with interactive **draw-and-drag exclusion zones** that steer the adaptive beamforming away from noise; drove the POCs and client proposals behind

the final solution.

- Implemented Spring Boot modules for Orchard Management; built a BLE Mesh app on nRF52 (MQTT gateway); trained 50+ recruits (Java 8, Spring Boot, Angular 7, Azure DevOps); built TI CC3200 embedded modules via Modbus.

> **Zubair Khan — Bose client POC**
> *"Siva worked with me as a member of the Mindtree team on the latest Bose technology. Very impressed by the work he did on a Node PC Electron application, using canvas for drawing 3D space. A complicated job, but Siva managed it very well and delivered on time."*
>
> **Shrinivas Budi — Software Development Manager**
> *"…an excellent analytical engineer, did a lot of POCs and proposals to client which helped them zero in on the best solution possible."*

EDUCATION

Bachelor of Engineering, Electronics & Communication

Mahatma Gandhi University, Kerala • 2012 – 2016