

Raja Shanmugam JM

Software Engineer

A Software Engineer with an experience of about 7 years, passionate about web and mobile application development along with architecting robust infrastructure.

Proficient in leveraging cutting-edge technologies such as JavaScript, Flutter, Kubernetes, Docker, and cloud-native solutions to architect and build robust, scalable, and user-centric applications.

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Highlights

- **Healthcare Tech:** Designed and implemented robust workflow-based services to efficiently process and analyse health metrics.
- **DevOps:** Architected multi-environment CI/CD pipelines on AWS, including automated server patching (Windows, Linux - Debian),
- **DBA:** Leveraged recursive CTEs and PostgreSQL's powerful query optimisation features to significantly improve the performance of complex hierarchical queries on large datasets.
- **Backend:** Solved the challenge of scaling a Node.js application to handle high traffic loads by optimising code, implementing caching mechanisms, and utilising cluster strategies, resulting in a 2x increase in throughput and a 50% reduction in response time.

Nikic Company (Contract)

May 2023 - Jun 2024

Full-stack Developer

Tasked with developing multiple features for **Propbar** platform including billing.

Full-stack Developer

Designed and developed a system to process, visualise, and alert on incoming health data based on clinician-defined thresholds. Implemented seamless authentication between multiple NHS applications.

Aaludra Technologies, Coimbatore

Mar 2018 - Jan 2022

Research & Development

Spearheaded the adoption of new technologies, leading multiple successful PoCs to drive product innovation.

Full-stack Developer

Addressed the need for effective data visualisation by building a GIS-based web application that leverages OpenLayers and QGIS to uncover valuable insights from sensor data.

ESKO Graphics (Contract)

Jan 2022 - Mar 2023

Tools Engineer

Leveraged my technical expertise to contribute to the development of a CMDB for managing assets across AWS, NTT Data, and other cloud providers. My responsibilities included:

1. Designing and implementing the CMDB database schema.
2. Developing a workflow orchestrator to automate server patching and remote script execution.
3. Creating automation scripts to streamline software installations and system configuration.

GNTS Technologies, Coimbatore

Jun 2016 - Jan 2018

Frontend Developer

Part of a team building Online application portal for **TANGEDCO** entrance exams, including features for online payment, reconciliation, hall ticket generation, and reporting.

Full-stack Developer

Responsible for developing both backend and frontend part of **Chennai E Guide**. A service discovery app for both businesses and service providers

Technology

- Web Application Development
- Server Application Development
- Hybrid Mobile Development
- DevOps

Languages

- HTML, CSS, JS / TS
- Dart
- Go
- Kotlin

Frameworks & Runtimes

- Vue, Nuxt, Angular
- Flutter, Flutter Bloc
- Node JS, Bun & Deno
- Hapi JS, Express

Libraries & Tools

- Leaflet, Google Maps, Tailwind CSS
- Vuetify, Ant Design, High Chart, Chart Js
- BullMQ, Redis, RabbitMQ, NX, Vite, JSReport

Databases, DevOps & Cloud

- MySQL, PostgreSQL, ArangoDB, Firebase
- VS Code, Web Storm
- Digital Ocean, AWS, Contabo, OVH Cloud
- Grafana, Prometheus, Docker, K8, RKE2

Resides at **India**

B.e (Computer Science)

Loves Tech, Nature, Food & Travel

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