VIGNESH R S

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SUMMARY

Full Stack Software Engineer with 3 years experience building healthcare products end to end: Java/Spring microservices and REST APIs, React frontends, and event-driven Kafka messaging systems on GCP and AWS, working daily with AI across the SDLC.

EDUCATION

Arizona State University — Jan 2024 - Dec 2025
MS Computer Science — *Tempe, AZ*

Dayananda Sagar University — Aug 2017 - June 2021
B. Tech Computer Science and Engineering — *Bangalore, India*

SKILLS

Languages:	Java 8+, JavaScript (ES6+), TypeScript, SQL, Python
Backend:	Spring Boot, REST APIs, Kafka, Microservices, JPA/Hibernate, Flask, FastAPI
Databases:	PostgreSQL, MongoDB, Redis, Snowflake, SQL tuning
Frontend:	ReactJS, NextJS, Redux, HTML5/CSS3
DevOps & Testing:	GCP, AWS, Docker, Kubernetes, GitHub Actions, CI/CD, JUnit, Selenium, Grafana, Git

EXPERIENCE

ASU - W. P. Carey School of Business — Jan 2026 - Present
Software Engineer — *Tempe, AZ*

- Built an AI-powered resume evaluation platform from scratch for faculty research: **Java Spring Boot** REST APIs on **PostgreSQL** with **JWT** authentication and role-based access, and a **React** frontend, deployed on **GCP**.
- Engineered the rubric-driven **LLM** scoring pipeline as a **Python Flask** service over the **Anthropic API**, with response caching and idempotency keys to cut repeat compute cost, built end to end with a **Claude Code** workflow.

ON Semiconductor Corporation — Sep 2025 - Dec 2025
Data Analyst Intern — *Scottsdale, AZ*

- Built analytics datasets and **Power BI** dashboards with **Python** and SQL, integrating **Snowflake**, Excel, and ODBC sources, giving leadership near real-time visibility into inventory, revenue, and planning metrics.

NMC Provectus Solutions — Jun 2023 - Dec 2023
Software Engineer — *Bangalore, India*

- Built responsive **React** and **TypeScript** dashboards on a reusable, component-based architecture, consuming **REST APIs** and owning frontend features end to end for high-volume hospital management workflows running on **GCP**.
- Refactored UI data-loading paths with lazy loading and virtualized lists, cutting load times by 50% for complex data views.

Practo Technologies — Mar 2021 - Apr 2023
Software Engineer — *Bangalore, India*

- Owned features from design through production across **Java/Spring Boot** microservices and **React/Redux** frontends in a large enterprise healthcare platform on **GCP**, shipping transactional **REST APIs** for clinical workflows and third-party integrations in Agile Scrum teams.
- Built event-driven **Kafka**-based **HL7** messaging pipelines for regulated Gulf health exchanges, using consumer groups, idempotent processing, and dead-letter queues for reliable at-least-once delivery.
- Improved API performance and fault tolerance by profiling bottlenecks and hardening failure paths with timeouts, safe fallbacks, and structured logging, making production issues faster to troubleshoot.
- Developed a **Selenium + JUnit** test automation framework wired into **CI/CD**, enforcing release quality gates, raising test coverage by 15% and reducing regression risk.

YAOE (Neverinstall) — Mar 2020 - Mar 2021
Software Engineer Intern — *Bangalore, India*

- Containerized services with **Docker** and supported production **Kubernetes** deployments on **AWS** for a distributed cloud platform running isolated, sandboxed application sessions.
- Implemented a **GraphQL** layer over **PostgreSQL** and **NodeJS** for frontend consumption, cutting query latency by 40%

PROJECTS

FlightOps | Java, Spring Boot, Kafka, PostgreSQL, Redis, GCP — 2026

- Building an event-driven flight status backend for PHX departures: **Java 21** and **Spring Boot** services stream flight events through **Kafka** into **PostgreSQL** on Cloud SQL, with **Redis** caching in front of read-heavy status endpoints.
- Runs on **GCP Cloud Run** with **Pub/Sub** messaging and **Resilience4j** timeouts, retries, and circuit breakers around external flight data APIs.