

SUDHARSAN G

 sudharsanchess@gmail.com |  [LinkedIn](#) |  [GitHub](#) |  +91 9080518389 |  Chennai, Tamilnadu

SUMMARY

I am a versatile Software Engineer skilled in building backend applications and microservices using Java, Spring Boot, JavaScript, and AWS. Strong foundation in data structures and algorithms, distributed systems, and system design, with a focus on developing reliable, scalable solutions that improve service performance, streamline operations, and deliver measurable business impact. AWS Certified Solutions Architect – Associate.

EDUCATION

PSG College of Arts & Science, Coimbatore
Master of Computer Application (MCA) CGPA:8.6
PSG College of Arts & Science, Coimbatore
Bachelor of Computer Science CGPA:8.3

Tamilnadu, India
August 2022 - May 2024
Tamilnadu, India
July 2019 - May 2022

SKILLS SUMMARY

Languages and Libraries: Java, C, C++, HTML, CSS, Javascript, React js
Frameworks: Spring Boot, Spring Data JPA, Multi-threading, Spring Security, Apache Kafka, Tailwind CSS
API and Databases: REST, SOAP, gRPC, Web Sockets, MySQL, Redis
Testing and Tools: JUnit, Mockito, Jest, GIT, Postman, Gradle, DynaTrace, ELK, Swagger, Firebase
Cloud and Deployment: AWS, Docker, CI/CD Pipelines, OpenShift
Concepts: OOP, DSA, System Design, Design Patterns, Caching

WORK EXPERIENCE

Tata Consultancy Services, Chennai. Apr 2025 - Present
Software Engineer – Bank of Montreal, Canada | OLBB – B2B Online Banking Platform

- Designed and migrated the account services Account Information Services from on-prem to **AWS Lambda** with no production issues identified after go-live, and supported them post-release.
- Optimized low-latency getBalance and getAccountDetails APIs for real-time balance retrieval across Account Transfer, EFT, Zelle, and Interac transactions, serving **high-volume traffic** on a customer-facing banking platform.
- Optimized cloud infrastructure on AWS reducing operational **cost by 15%** while improving reliability and security.
- Built an automated retry job for the report scheduler to recover reports that failed due to generation timeouts on large datasets and re-deliver them through the downstream service before the next scheduled run, eliminating manual handling of **50+ customer reports daily** and saving an estimated **4+ support hours per day**.
- Collaborated cross-functionally with QA, Business, and Backend teams to deploy cloud-native services on **OpenShift**, using **Dynatrace and ELK** for monitoring, root-cause analysis, and production issue resolution.

PROJECTS

CareFlow: Event-Driven Patient Records Platform – Spring Boot, REST, gRPC, Kafka, JPA, Postgres, Redis, Docker, AWS

- Built a backend with **5 microservices**, exposing 8+ REST endpoints and using gRPC for inter-service communication, JWT for authentication, and Kafka for asynchronous event processing.
- Implemented Redis caching for patient reads, targeting an **80% cache hit rate** and reducing average response time from **180 ms to 110 ms** in a local k6 test with **50 concurrent virtual users**.
- Integrated Resilience4j **circuit breaker** for patient-to-billing gRPC calls, enabling fail-fast responses after the circuit opened and returning a controlled error when billing was unavailable.
- Implemented **paginated** patient search with **20 records per page** to limit response size and avoid fetching unbounded results.
- Containerized services with Docker and defined AWS infrastructure using AWS CDK, automating LocalStack deployment with a single script.

Netflix-GPT – React, OpenAPI, Firebase, Tailwind CSS

- Built a **Netflix-like movie platform** enhanced with **GPT-powered content recommendation** using **OpenAI API**.
- Implemented **secure authentication** with **Firebase** and fetched live movie data via **TMDB API**.
- Utilized **React Router, Redux, and memoization** for optimized state management and faster rendering.
- Designed a **responsive multi-language interface** using **Tailwind CSS** for seamless experience across devices.

CERTIFICATIONS

- AWS Certified Solution Architect - Associate, 2026
- Claude Certified Developer - Foundations, 2026