Aishwarya Murahari

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Education

San Jose State University	**San Jose, CA**
MS in Software Engineering - GPA: 3.76	*May 2026*
Bangalore Institute of Technology	**Bengaluru, India**
Bachelor's in Information Science and Engineering - GPA: 3.7	*May 2017*

Skills

Frontend: ReactJS, Redux, JavaScript, AngularJS, TypeScript, HTML5, CSS3, Bootstrap, Tailwind CSS, Qt
Backend: NodeJS, Python, GraphQL, REST APIs, Keycloak, OAuth2, Swagger
DevOps & Cloud: Kubernetes, Docker, Podman, AWS (S3, EC2, ELB), Jenkins, CircleCI, Ansible
Database: MongoDB, PostgreSQL, MySQL, SQLite3
Distributed Systems: GRPC, OpenMP, RabbitMQ, Redis, Grafana, Prometheus
Dev Tools: Git, Postman, Jest, Pytest, Gtest, Cmake, Valgrind, GDB, Perf, FlameGraph
Programming Languages: Python, C/C++, SQL
OS: Linux, MacOS, Windows

Professional Experience

Senior Full Stack Engineer | Accenture, India   *Oct 2017 – May 2022*

- Built WCAG-compliant, user-centric UIs using HTML5, CSS3, JavaScript, React.js, and Redux, increasing **user engagement by 25% and user satisfaction by 15%**.
- Migrated authentication and authorization systems to Keycloak and OpenID Connect, implementing JWT-based security to strengthen user data protection and reduce auth-related incidents.
- Designed and developed scalable REST and GraphQL APIs using Node.js and MongoDB, optimizing query performance and reducing average API response times.
- Containerized microservices with Docker, orchestrated scalable deployments using Kubernetes on AWS (EC2, S3, ELB).

Academic Projects

Automotive Inventory Management Platform   *Oct 2024*

- Architected a **cloud-native microservices system** (Node.js, Docker, Kubernetes on AWS) to synchronize inventory levels across multiple users in real time.
- Implemented **OpenAPI v3 based REST API's** and Keycloak-based SSO (Google, Apple, Facebook OAuth2 + TOTP MFA) for improved login security.
- Engineered hybrid storage—PostgreSQL for transactional data, NeonDB for flexible catalog entries—with Redis caching to **cut read latency by 60%** and RabbitMQ for reliable event messaging.
- **Built full-stack observability** using Prometheus exporters, Grafana dashboards, and ELK logging for streamlining troubleshooting.

Food Security & Nutrition Intelligence Chatbot   *Dec 2024*

- **Architected an RAG-powered conversational assistant** (**Python, LangChain, HuggingFace Transformers**) to serve information extracted from multiple nutrition PDF reports.
- Built a semantic search pipeline using text embeddings stored in **Vector DB with Redis** caching for FAQs.
- Developed a responsive React/TypeScript frontend with Tailwind CSS, featuring a conversational UX

Distributed Data Retrieval Framework   *Feb 2025*

- Developed a multi process C++ library to optimize search query performance on a large csv traffic collision dataset.
- Leveraged gRPC and Protobuf frameworks to setup IPC; optimized single-process performance with **OpenMP**.
- GoogleTest and GoogleBenchmark with Cmake tooling used to measure latency and track improvements.
- Used **Perf and Flamegraph** tools to investigate performance bottlenecks and regressions.

QT based game design   *March 2025*

- Developed Qt-based GUI apps in C++ to play games like Texas Hold'em Poker and Rock/Paper/Scissors.
- Explored various game strategies including machine learning based game play.

Nanodegree & Certifications

**Udacity	Full stack JavaScript Developer Nanodegree**	**October 2023**
**AZ-900	Microsoft Azure Fundamentals Certification**	**July 2020**