

Aishwarya Murahari

San Jose, CA | 📞 +1-669-600-7548 | ✉ aishwaryamurahari95@gmail.com | 🌐 aishwaryamurahari | **in** Aishwarya Murahari

Education

San Jose State University

MS in Software Engineering - GPA: 3.76

San Jose, CA

June 2026

Bangalore Institute of Technology

Bachelor's in Information Science and Engineering - GPA: 3.7

Bengaluru, India

June 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 Developer | 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.
- Defined OpenAPI v3 REST contracts and implemented 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 via multithreading 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