

Abhinav Sriharsha Anumanchi

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EDUCATION

San Jose State University

Master of Science in Software Engineering

Jan 2024 – Dec 2025

San Jose, California

- **Relevant Coursework:** System Software, Web UI Design, Data Mining, Enterprise Software Platforms, Software Systems Engineering, Enterprise Distributed Systems, Software Quality Assurance and Testing

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, SQL, TypeScript

Frameworks: React.js, Node.js, Express.js, Spring Boot, Flask, FastAPI, GraphQL

Databases: MongoDB, PostgreSQL, MySQL, Redis, FAISS, ChromaDB

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, Git, CI/CD

Architecture & Design: REST APIs, Microservices, System Design, Distributed Systems, Scalable Systems, LLM Integration, Retrieval-Augmented Generation (RAG)

Tools: GitHub, Figma, Postman, Tableau, TensorFlow, NumPy, Pandas, VS Code, Eclipse, Linux

EXPERIENCE

Software Engineer

Aviac Technologies

Jan 2023 - Dec 2023

Hyderabad, India

- Contributed to developing responsive web applications using React.js on the frontend and Node.js on the backend, improving UI performance by 20% through optimized component design and reducing bounce rate by 15%.
- Built and maintained RESTful and GraphQL APIs using Node.js and Java, supporting 2,000+ daily users and reducing API latency by 30%.
- Collaborated across teams to ensure seamless integration between frontend and backend systems, maintaining UI consistency and reliability across projects.
- Optimized PostgreSQL queries, decreasing data retrieval time by 25% and enabling 50% higher concurrency under load.
- Followed Agile methodology and participated in code reviews to ensure 90% code quality compliance and timely delivery.
- **Tech Stack:** React.js, Node.js, PostgreSQL, MongoDB, Java, AWS, Docker, Git, GraphQL

PROJECTS

Adalat Tax-Copilot

Node.js, Next.js, Tailwind CSS, FAISS, Hugging Face, RAG, Cohere, OpenAI API

- Developed an AI-powered web application implementing a Retrieval-Augmented Generation (RAG) pipeline using FAISS-based semantic search and LLM reasoning to extract legal metadata, identify precedents, and summarize tax litigation patterns across 25+ court cases.
- Built an interactive Next.js frontend with Tailwind CSS to visualize legal insights, achieving 85% alignment with expert recommendations and improving analysis consistency by 40%.

Restaurant Finding System

React.js, Node.js, Express.js, MongoDB, JWT, AWS EC2, Elastic Load Balancer, Google Maps API

- Developed an interactive restaurant finder using React.js and Google Maps API, improving search responsiveness by 35% through optimized UI rendering.
- Implemented JWT-based authentication and role-based access control (RBAC) to secure user data and manage permissions.
- Deployed a scalable backend on AWS EC2 with Elastic Load Balancer, leveraging caching and query optimization to reduce API latency and ensure high availability for concurrent users.

Learning Management System (LMS)

React.js, Node.js, Figma, MongoDB, React Router, AWS EC2, Auto Scaling, CI/CD

- Built an interactive full-stack web application for online learning, optimizing React.js performance and backend APIs to reduce load times by 30% and improve responsiveness.
- Prototyped and iterated UI designs in Figma, improving usability and accessibility compliance, which increased student satisfaction by 30%.
- Implemented CI/CD-driven deployment on AWS EC2 with Auto Scaling, reducing downtime during updates and ensuring high availability for end users.

ACHIEVEMENTS

- Runner-up at **LLM x Law Hackathon (Stanford Law School)** – recognized for building an AI-driven legal document analyzer using large language models (LLMs).