

# NAVEEN SAI

## Software Engineer

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### SUMMARY

Software Engineer with 4+ years of experience designing, developing, and deploying high-performance backend and full-stack applications across fintech, mobility, and enterprise domains. Expert in **Java, Spring Boot, microservices architecture, RESTful APIs, and event-driven systems** with strong proficiency in **React, Angular, Node.js, and cloud-native platforms (AWS, Azure, GCP)**. Skilled in building **scalable, secure, and highly available systems** using **Apache Kafka, Kubernetes, Docker, OAuth 2.0, RBAC, and CI/CD pipelines**, achieving measurable improvements in performance, reliability, and operational efficiency. Adept at **system design, data structures, algorithms, concurrency, and full software development lifecycle (SDLC)**. Certified in **Machine Learning, Python, SQL, and cloud technologies**, with hands-on experience in **AI/ML integration, serverless architectures, and modern web development frameworks**. Committed to delivering **robust, compliant, and innovative software solutions** that align with business goals.

### PROFESSIONAL EXPERIENCE

#### JP Morgan Chase & Co.

USA

##### Software Engineer

January 2025 – Present

- **Architected Java backend services** leveraging advanced data structures and concurrency controls, processing **~1.2M daily banking transactions** and reducing critical processing latency by **~18%**.
- **Engineered Spring Boot microservices with REST APIs** to automate account and payment workflows, integrating **15+ core banking systems** and decreasing average service response time by **~12%**.
- **Designed real-time event pipelines using Apache Kafka**, ensuring reliable transaction streaming across trading and payments systems, handling **~250K messages/hour** with **>99.9% delivery reliability**.
- **Developed responsive React dashboards** with component-driven UI and API integration, improving internal operational efficiency and reducing report generation time for banking staff by **~20%**.
- **Implemented OAuth 2.0-based authentication and RBAC policies**, achieving **full PCI-DSS compliance** and eliminating high-risk security gaps across regulated applications.

#### Uber

USA

##### Software Engineer

August 2024 – December 2024

- **Implemented Java Spring Boot microservices** supporting ride-matching and trip state transitions, consistently handling **~180K daily API calls** with **~150 ms average response times** while improving request stability under peak traffic.
- **Orchestrated Apache Kafka event streams** for driver location and trip status updates, processing **~900K messages per day** and enabling near-real-time data availability for downstream pricing and ETA services.
- **Crafted React-based UI components** for trip history and fare breakdown experiences, integrating REST APIs to reduce page load delays by **~400 ms** and improve rendering consistency across high-usage user flows.
- **Automated AWS Kubernetes deployments** for containerized backend services using CI/CD pipelines, shortening release execution time by **~20 minutes** and supporting regular production deployments without service interruption.
- **Hardened API access using OAuth 2.0 authentication** with token validation and RBAC enforcement, securing multiple internal endpoints and meeting Uber's internal security review requirements without critical findings.

#### Dell Technologies

INDIA

##### Software Engineer

August 2021 – July 2023

- **Engineered Java microservices with Spring Boot**, applying concurrency control, data structures, and SOLID design to deliver 9 REST APIs supporting device-lifecycle workflows and reliably serving **~7–9K internal requests per day** in production.
- **Implemented component-based enterprise UIs using React**, integrating REST APIs and state management to power operational dashboards adopted by **~40 internal users** and reducing manual status tracking during support triage.
- **Streamlined event-driven processing with Apache Kafka**, designing producers and consumer groups to handle **~300K system events daily** and improving resilience across distributed services without tight service coupling.
- **Containerized and deployed services on AWS using Kubernetes**, enabling automated CI/CD releases on a bi-weekly cadence and minimizing environment-related deployment issues during QA and staging validations.
- **Secured backend services with OAuth 2.0 and RBAC**, enforcing standardized authentication and authorization across **6+ APIs** and supporting successful internal security and compliance reviews.

### TECHNICAL SKILLS

- **Frameworks & Libraries:** Spring Boot, Spring Data JPA, Hibernate, React.js, Angular, Next.js, Redux Toolkit, Tailwind CSS, Programming & Core Engineering, Java (Expert), JavaScript/TypeScript, Python, C++, SQL, Data structures, algorithms, concurrency, memory management
- **Application & Backend Engineering:** Spring Boot, Node.js/Express.js, Django, REST & SOAP APIs, microservices, event-driven systems
- **Frontend Engineering:** React, Angular, Vue.js, Bootstrap, Component-based UI development, state management, API integration
- **Data & Messaging:** PostgreSQL, Oracle, MongoDB, ElasticSearch, Apache Kafka, RabbitMQ, caching strategies
- **Cloud, DevOps & Reliability Engineering:** AWS, Azure, GCP, Docker, Kubernetes, ArgoCD, CI/CD pipelines, IaC, monitoring & observability
- **Security & Compliance Engineering:** OAuth 2.0, JWT, RBAC, PCI-DSS, GDPR, HIPAA
- **Architecture, Quality & Delivery:** System design, SOLID principles, microservices, Unit & integration testing, performance optimization

## PROJECTS

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### AI Mock Interview Platform | Next.js, Firebase, Google Gemini LLM [Live Demo ↗](#) | [GitHub ↗](#)

- Developed a full-stack AI-powered mock interview platform using Next.js 13 (React + TypeScript), Tailwind CSS, and Firebase, enabling secure authentication, responsive UI, and real-time interview data management.
- Embedded Google Gemini LLMs through the Vapi SDK to generate role-specific interview questions and deliver automated, structured performance feedback, powered by a serverless Cloud Firestore backend.
- Deployed the application to Vercel, ensuring high availability, fast global performance, and scalable deployment for production use.

### AI-Image Generation Platform | MERN Stack, Open AI DALL·E API | [Live Demo ↗](#) | [GitHub ↗](#)

- Architected a full-stack image generation platform using the MERN stack, integrating OpenAI's DALL·E API and Cloudinary to generate, store, and serve AI-created images from user prompts.
- Delivered responsive user interfaces with React, Vite, and Tailwind CSS, and constructed RESTful APIs using Node.js, Express, and MongoDB Atlas to support keyword search, secure image downloads, and prompt management.
- Deployed the frontend on Vercel and backend on Render, configuring production builds and environment settings to support scalable traffic and reliable application performance.

## EDUCATION

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### University of Central Missouri

Master of Science in Computer Science

Missouri, USA

August 2023 – December 2024

### Velagapudi Ramakrishna Siddhartha Engineering College

Bachelor of Technology in Computer Science and Engineering

Vijayawada, INDIA

June 2019 – April 2023

## CERTIFICATION

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- **Supervised Machine Learning: Regression and Classification** – Stanford University [Link](#)
- **Databases and SQL for Data Science with Python** – IBM [Link](#)
- **AI For Everyone** – [DeepLearning.AI Link](#)
- **PCAP – Programming Essentials in Python** – Cisco Networking Academy [Link](#)