

KOUSHIK ANITHA RAJA

Dallas • +1 (551) 263-6785 • koushikanitharaja@gmail.com • [LinkedIn](#) • [GitHub](#) • [Website](#) • Available: June 2025 (Full-Time)

Software Engineer with 3+ years of experience specializing in Full Stack, Cloud, and AI engineering. Expertise in Python, Java, TypeScript, React, Node.js, AWS, Docker, Kubernetes, and CI/CD, with a proven track record of building scalable backend systems, real-time analytics, and AI-powered apps. Adept at optimizing performance, automating workflows, and leading cross-functional teams to deliver high-impact solutions.

SKILLS

Programming Languages: Python, Java, TypeScript, JavaScript, C, HTML
Frameworks and Libraries: React.js, Node.js, Express.js, Next.js, Angular, Spring Boot, Django, Firebase, Cypress, GraphQL, Vitest, Socket.io
Cloud and DevOps: AWS (Lambda, EC2, S3, CloudWatch, ECS, CDK), Docker, Kubernetes, Jenkins (CI), GitHub Actions, Git, CI/CD
Databases and Tools: MongoDB, MySQL, PostgreSQL, Redis, Apache Kafka, Elasticsearch, Kibana, Prometheus, Grafana, Postman, Tailwind, Winston, Loggly, Sass

PROFESSIONAL EXPERIENCE

AI Software Engineer Apr 2024 – Present
Turing, Remote, United States

- Developed a monitoring system for Data Analytics models to track real-time metrics such as loss, accuracy, training time, and resource usage.
- Designed API wrapper for Google Gemini in NodeJS, Redis, and MongoDB, integrating with analytics pipeline, handling 4k+ requests/min.
- Collaborated with data scientists, translating machine learning metrics into insights that drive data-driven decision making and transparency.
- Established automated pipelines for model evaluation and deployment using Docker, Kubernetes, and CI, enhancing operational scalability.
- Optimized backend systems by introducing asynchronous processing, advanced caching, and message queues to cut processing bottlenecks.
- Applied logging, alerting, and root cause analysis with ELK, Prometheus, Grafana for anomaly detection and model performance monitoring.
- Led code reviews and enforced modular, test-driven development (TDD), boosting code quality and knowledge sharing in distributed teams.
- Documented and enforced data security, access control, and privacy compliance (GDPR/CCPA) in model training and inference workflows.

Software Engineer I July 2023 – Feb 2024
Green Action Studio, New York, United States

- Built driver pricing and discounts dashboard in partner portal with React and Node.js, improving partner engagement and system efficiency.
- Integrated Apache Kafka for real-time microservices data sync, enabling rapid, reliable event propagation and scaling high-volume processing.
- Automated GitHub Actions CI/CD pipelines, accelerating deployment, increasing reliability, and enabling faster cloud-native app delivery.
- Deployed AWS CDK serverless apps for charging station maintenance, ensuring uptime, scalability, and fault-tolerant cloud infrastructure.
- Engineered API gateway in TypeScript, bridging React frontends with Node.js backends and managing AWS S3, EC2, CloudWatch ops.
- Collaborated cross-functionally with Product, Design, and DevOps to translate requirements into technical solutions and drive agile delivery.

Software Engineer Intern Nov 2020 – Dec 2020
Verzeo Technologies

- Crafted responsive UI in React, integrated RESTful APIs via Node.js/Express, deploying portfolio websites in Agile, fast-paced environment.
- Resolved critical bugs using centralized logging (Winston, Loggly), improving debugging workflow and reducing resolution times in sprints.
- Migrated backend from monolithic to modular Node.js and MongoDB, enhancing scalability, maintainability, and application architecture.
- Tuned MongoDB queries to minimize response time, enhancing site performance, and supporting higher concurrent user loads during peaks.
- Collaborated with teams using Agile, joined stand-ups, sprint planning, code reviews, ensured timely releases, and process improvement.

Software Engineer Intern Aug 2020 – Sep 2020
Indian Institute of Technology

- Developed and deployed a scalable web app in React and Spring Boot to streamline internal workflows and boost organizational productivity.
- Implemented RESTful API endpoints using Spring MVC, ensuring secure data flow between the React.js frontend and MySQL backend.
- Created mobile-first UI with CSS Grid, Flexbox, and Sass to improve accessibility, cross-device compatibility, and internal tool engagement.
- Integrated CI/CD with GitHub Actions/Docker, automating code testing, build, and deployment to cut manual errors and speed up delivery.
- Optimized SQL queries and applied Redis caching to minimize database latency, resulting in fast load times for critical internal dashboards.

PROJECTS

Fable: Social Story-Telling Platform

- Developed a multi-browser web app with React, NextJS, and MongoDB to enable immersive social storytelling and dynamic user content.
- Implemented concurrent reading via Socket.io on a Node.js/Express.js backend, boosting session activity and real-time user interaction.

Automated Content Moderation System

- Built and deployed a BERT-based NLP model using TensorFlow, automating text moderation for community platforms at high accuracy.
- Integrated scalable model inference with FastAPI and Docker, maintaining consistent latency under peak concurrent user loads.

EDUCATION

Stevens Institute of Technology, Hoboken, NJ, United States | Master of Science in Computer Science, CGPA: 3.6/4.0 May 2023

- Coursework: Web Programming, Database Management Systems

Karpagam College of Engineering | Bachelor of Technology in Information Technology, CGPA: 8.0/10.0 May 2021

- Coursework: Object Oriented Programming, Linux/Unix OS