

Koushik Anitha Raja

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Available: JUN 2025(Full-Time) | Interested in FullStack Engineer and Software Engineer positions

EDUCATION

Stevens Institute of Technology , Hoboken, NJ, United States, CGPA - 3.67/4	May 2023
Master of Science in Computer Science, Courses - Web Programming, Database Management Systems	
Karpagam College of Engineering , Coimbatore, TN, India, CGPA – 8.0/10	May 2021
Bachelor of Technology in Information Technology, Courses - Object Oriented Programming, Linux/Unix OS	

PROFESSIONAL EXPERIENCE

AI Software Engineer Highbrow Technologies , Remote, United States	Apr 2024 – Present
<ul style="list-style-type: none">Accelerated the development of a monitoring and evaluation software tool for the Data Analytics model, enabling real-time tracking of critical metrics such as loss, accuracy, training time, and resource usage, aligning with ERP practicesCreated a wrapper API for Google's Gemini API using NodeJS, Redis, and MongoDB, enabling efficient integration with our data analytics pipeline, resulting in a 30% reduction in API response times and supporting over 4,000 requests per minuteCollaborated with cross-functional data scientists and stakeholders, translating complex model metrics into actionable insights, resulting in a 25% improvement in model performance monitoring and stakeholder communicationRefactored server-side rendering (SSR) with Next.js, leading to a 40% increase in SEO performance and faster page loadsBuilt a user-friendly frontend interface using ReactJS and Redux, creating an intuitive dashboard for visualizing real-time model metrics and performance data, updated every 5 seconds, providing dynamic insights	
Software Engineer I Green Action Studio , New York, United States	Jul 2023 – Feb 2024
<ul style="list-style-type: none">Pioneered implementation of driver-centric pricing features in the partner portal, developed an intuitive discounts dashboard, collaborated with technical support to streamline admin portal for efficient access to driver data and discountsCurated extensive test-driven development, orchestrating unit tests in Vitest with 100% coverage, and successfully carried out frontend testing utilizing React Testing Library and end-to-end testing using Cypress for validating user interactionsImplemented Apache Kafka which significantly reduced message processing times by 40% and enabled real-time data synchronization across microservices, resulting in an upscaling of the system's responsivenessOptimized the GitHub CI/CD pipelines, reducing deployment time by 60% and minimizing manual errors, enabling faster and more reliable feature rollouts in a high-traffic cloud environmentDeployed scalable serverless AWS CDK cloud applications for charging station maintenance, ensuring high system reliabilityEngineered an efficient API gateway to facilitate the smooth connection between front-end and backend systems using TypeScript, leveraging Amazon S3, EC2, and CloudWatch for robust cloud portal operations and logging	
Software Engineer Intern Verzeo Technologies , Chennai, India	Nov 2020 – Dec 2020
<ul style="list-style-type: none">Developed portfolio websites using React.js and Context API while collaborating with the backend software engineers, simultaneously addressed and rectified core business-critical bugs, ensured sustained integrity of the websiteEstablished centralized logging mechanisms, resulting in a 20% improvement in debugging efficiency and issue resolutionOptimized the web application with NodeJS for backend operations, and MongoDB for the database service providerActively participated in Agile processes, including Scrum, planning, and contributing to effective project management	
Software Engineer Intern Indian Institute of Technology , Hyderabad, India	Aug 2020 – Sep 2020
<ul style="list-style-type: none">Designed utility applications involving kernel-level functionalities for managing internal organizational resources for other engineers and supplemented internal tooling using Java, achieving a 30% increase in workflow efficiencyArchitected a mobile-first responsive design system using CSS Grid and Flexbox, resulting in a 25% increase in mobile conversion rates and a 40% increase in mobile user engagement while improving cross-device compatibilityIntegrated RESTful APIs, leveraging Spring MVC, to facilitate seamless communication between front-end and back-end systems, utilizing Springboot to enhance efficiency in modularity, maintainability, and deployment	

ACADEMIC PROJECTS

[Fable: A social story-telling platform](#)

- Constructed a social story-telling platform, which is a multi-browser compatible, React.js-powered web application like Wattpad using **Node.js**, **Express.js** for the backend, NextJS, and MongoDB as the **NoSQL** database
- Formulated concurrent story reading features by utilizing Web sockets through **socket.io**, and enhanced user engagement

SKILLS

Programming Languages: Python, TypeScript, Java, JavaScript, C, HTML

Technologies: AWS(Lambda, EC2, S3, CloudWatch, ECS), Apache Kafka, Jenkins(CI), Redux, Elasticsearch, Kibana, Docker

Frameworks: React.js, Node.js, ExpressJS, Next.js, Vitest, Angular, Cypress, Firebase, SpringBoot, GraphQL, Django

Databases/ Tools: MySQL, Postgres, MongoDB, Redis, Git, Postman, Tailwind