Dallas | koushikanitharaja@gmail.com | [LinkedIn](#) | [GitHub](#) | [Website](#) | +1(551) 263 6785

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

, Remote, United States

- 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 practices
- Created a wrapper API for   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 minute
- Collaborated 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 communication
- Refactored server-side rendering (SSR) with   , leading to a 40% increase in SEO performance and faster page loads
- Built a user-friendly frontend interface using   and Redux, creating an intuitive dashboard for visualizing real-time model metrics and performance data, updated every 5 seconds, providing dynamic insights

, New York, United States

- 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 discounts
- Curated extensive test-driven development, orchestrating unit tests in   with 100% coverage, and successfully carried out frontend testing utilizing React Testing Library and   testing using   for validating user interactions
- Implemented   which significantly reduced message processing times by 40% and enabled real-time data synchronization across microservices, resulting in an upscaling of the system's responsiveness
- Optimized 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 environment
- Deployed scalable serverless   CDK cloud applications for charging station maintenance, ensuring high system reliability
- Engineered an efficient API gateway to facilitate the smooth connection between front-end and backend systems using TypeScript, leveraging Amazon   ,   , and CloudWatch for robust cloud portal operations and logging

, Chennai, India

- Developed portfolio websites using React.js and   while collaborating with the backend software engineers, simultaneously addressed and rectified core business-critical bugs, ensured sustained integrity of the website
- Established centralized logging mechanisms, resulting in a 20% improvement in debugging efficiency and issue resolution
- Optimized the web application with NodeJS for backend operations, and MongoDB for the database service provider
- Actively participated in Agile processes, including   , planning, and contributing to effective project management

, Hyderabad, India

- Designed utility applications involving kernel-level functionalities for managing internal organizational resources for other engineers and supplemented internal tooling using   , achieving a 30% increase in workflow efficiency
- Architected 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 compatibility
- Integrated RESTful APIs, leveraging Spring MVC, to facilitate seamless communication between front-end and back-end systems, utilizing   to enhance efficiency in modularity, maintainability, and deployment

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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   for the backend NextJS, and MongoDB as the   database
- Formulated concurrent story reading features by utilizing Web sockets through   , and enhanced user engagement

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: Python, TypeScript, Java, JavaScript, C, C++, HTML
AWS(Lambda, EC2, S3, CloudWatch, ECS), Apache Kafka, Jenkins(CI), Redux, Elasticsearch, Kibana, Docker
React.js, Node.js, ExpressJS, Next.js, Vitest, Angular, Cypress, Firebase, SpringBoot, GraphQL, Django
: SQL, Postgres, MongoDB, Redis, Git, Postman, Tailwind