




KISHOREKUMAR BATHINI SANKARAN

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EDUCATION

California State University, Fresno

Master of Science - Computer Science

Dec 2024

Fresno, California, USA

- **Relevant Coursework:** Advanced Database Technology, SDLC, Combinatorial Algorithms, Advanced Software Engineering.

Anna University

Bachelor's of Engineering - Computer Science and Engineering

May 2022

Chennai, TamilNadu, India

SKILLS

Languages: Python, Java, JavaScript (Node.js, React.js), SQL, HTML, CSS, and C++

Frameworks and Libraries: React.js, Redux, Angular, Django, Express.js, Spring Boot, Pytorch

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Cassandra, Redis

Cloud and DevOps: AWS (Lambda, ECS, Kinesis, SNS, SQS), Docker, Kubernetes, Jenkins, Git, GitHub, GitLab, CI/CD

WORK EXPERIENCE

Instructor - Cybersecurity, & Teaching Associate - CSCI 40 & CSCI 117 | California State University, Fresno

Jan 2024 – Present

- Developed and delivered curriculum on cybersecurity principles and **software architecture** to over **50** students, applying real-world scenarios to increase comprehension by **30%** and introducing concepts relevant to **Python**, and **MongoDB**.
- Designed and executed hands-on modules in **Python**, **C++**, and **Haskell**, enhancing practical skills in programming, access control, and authentication, leading to a **25%** improvement in student performance and better preparation for full-stack development roles.
- Led workshops on **cloud computing**, **secure coding practices**, and **database management**, equipping students with industry-relevant skills for full-stack development and reducing potential vulnerabilities by **40%** in student projects.
- Integrated Agile and DevOps practices into the curriculum and collaborated with fellow instructors to develop assessments and feedback mechanisms, increasing project delivery efficiency by **20%** and student satisfaction by **35%**.

Software Engineer I Intern | Cognizant Technology Solutions, Chennai, India

Feb 2022 – July 2022

- Engineered robust system integrations using **REST** and **SOAP APIs**, enhancing data exchange reliability by **30%** and reducing manual processes by **25%**. Implemented **OAuth 2.0** for secure API authentication, boosting overall system security.
- Architected and developed scalable web applications utilizing **React**, **Django**, **MongoDB**, and **GraphQL**, delivering high-performance solutions that increased project efficiency by **35%** and improved user experience metrics by **40%** within 6 months.
- Executed unit and integration testing, ensuring high-quality deliverables and reducing bugs by **40%** through rigorous testing practices.
- Participated in code reviews and adhered to **SOLID principles** and best practices, improving code maintainability and reducing technical debt.

Junior Software DevOps | Ruchi Soya Industries Ltd, Tiruvallur, India

Aug 2021 – Dec 2021

- Developed custom web solutions using **HTML**, **CSS**, and **JavaScript**, enhancing the company's online presence and increasing user engagement by **30%**.
- Implemented **CI/CD pipelines** with **Jenkins**, improving deployment processes and code quality, reducing deployment time by **20%**.
- Utilized **Docker** for containerization, streamlining application deployment and improving system efficiency by **15%**.
- Collaborated with cross-functional teams to design and integrate web applications, ensuring alignment with business requirements and improving operational efficiency.

PROJECTS

Interactive Typing Speed Test Application | React, ES6, REST API, CSS3

June 2024

- Engineered a dynamic typing speed assessment platform using **React** and **ES6 features**, implementing custom hooks for efficient state management and memoization techniques, resulting in a **30%** performance boost and seamless user experience across devices.
- Integrated a **RESTful API** for diverse content generation, coupled with an advanced **algorithm** for real-time WPM and accuracy calculations, enhancing user engagement by **25%** and delivering precise performance metrics.
- Crafted an intuitive UI with **CSS3 animations** and **responsive design principles**, incorporating **accessibility features** that led to a **40%** increase in mobile user retention and positive feedback from the accessibility community.

Full Stack Blog Application | React, Node.js, MongoDB, GraphQL

April 2024

- Architected a high-performance blog platform using **React** with **Server-Side Rendering (SSR)** and **GraphQL**, resulting in a **40%** improvement in page load times and SEO rankings, while implementing **Microservices architecture** with **Node.js** and **MongoDB** for scalability.
- Leveraged **React Hooks** and **Context API** for state management, reducing boilerplate code by **30%** and enhancing component reusability.
- Implemented **OAuth 2.0** and **JWT** for secure authentication, integrating **rate limiting** and **CSRF protection** to fortify against common web vulnerabilities.

Full-Stack E-Commerce Platform | React, Redux, Node.js, MongoDB, Stripe

Dec 2023

- Engineered a scalable e-commerce solution utilizing **React** and **Redux Toolkit** for efficient state management, coupled with **Elasticsearch** for lightning-fast product search capabilities, resulting in a **50%** reduction in cart abandonment rates and a **35%** increase in average order value.
- Implemented **CI/CD pipelines** using **GitHub Actions** and deployed on **Vercel** with **Docker**, ensuring **99.9%** uptime.
- Integrated **Stripe** payment gateway with **PCI DSS** compliance, implementing **webhooks** for real-time order processing and fraud detection.