KISHOREKUMAR BATHINI SANKARAN

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EDUCATION

California State University, Fresno — **Dec 2024**
Master of Science - Computer Science — *Fresno, California, USA*
- **Relevant Coursework:** Advanced Database Technology, SDLC, Combinatorial Algorithms, Advanced Software Engineering.

Anna University — **May 2022**
Bachelor's of Engineering - Computer Science and Engineering — *Chennai, TamilNadu, India*

SKILLS

Languages: Python, Java, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3, C++, Shell Scripting
Frameworks & Libraries: React.js, Redux, Angular, Vue.js, Django, Express.js, Spring Boot, Flask, Pytorch, TensorFlow
Cloud and DevOps: AWS (Lambda, ECS, Kinesis, SNS, SQS), Azure, GCP, Docker, Kubernetes, Jenkins, Git, GitHub, GitLab, CI/CD
Databases, & MISC: PostgreSQL, MySQL, MongoDB, DynamoDB, Cassandra, Redis, RESTful APIs, GraphQL, Microservices, Agile

WORK EXPERIENCE

Instructor - Cybersecurity, & Teaching Associate - CSCI 40 & CSCI 117 | *California State University, Fresno* — **Jan 2024 – Present**
- Created 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.
- Conducted 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.

Software Engineer I Intern | *Cognizant Technology Solutions, Chennai, India* — **Feb 2022 – July 2022**
- Constructed system integrations using **REST** and **SOAP APIs**, enhancing data exchange reliability by 30% and reducing manual processes by 25%. Implemented **OAuth 2.0** for API authentication.
- Architected scalable web applications using **React**, **Django**, **MongoDB**, and **GraphQL**, increasing project efficiency by 35% and improving user experience by 40% within 6 months.
- Executed unit and integration testing, ensuring quality deliverables and reducing bugs by 40% through rigorous practices.
- Participated in code reviews and applied **SOLID principles**, improving code maintainability and reducing technical debt.

Junior Software DevOps Intern | *Ruchi Soya Industries Ltd, Tiruvallur, India* — **Aug 2021 – Dec 2021**
- Built full-stack web solutions using MERN stack, implementing RESTful APIs for backend services and improving user engagement 30%
- Collaborated with cross-functional teams using **Agile methodologies**, leveraging various **IDEs** to design and integrate scalable web applications, ensuring alignment with business requirements and improving operational efficiency.
- Established **CI/CD pipelines** with **Jenkins**, integrating with **JIRA** for project tracking, resulting in streamlined **end-to-end** development processes and reducing deployment time by **20%**.
- Applied **Docker** for containerization and implemented **design patterns** in **webservices** development, enhancing system efficiency by **15%** and improving code maintainability.

PROJECTS

MERN Stack Blog Application | *React, Node.js, Express.js, MongoDB, JWT* — **July 2024**
- Architected a scalable blogging platform using **MERN stack**, implementing **JWT-based authentication** and **bcrypt** for secure user management, resulting in a 40% increase in user engagement and content creation.
- Crafted a robust **RESTful API** with **Express.js**, integrating **Mongoose ORM** for efficient **MongoDB** interactions, and utilized **Postman** for comprehensive API testing and documentation.
- Developed a responsive frontend with **React.js**, leveraging **React Router** for seamless navigation and implementing **React Quill** for rich text editing, enhancing user experience and reducing bounce rates by 25%.

Interactive Typing Speed Test Application | *React, ES6, REST API, CSS3* — **June 2024**
- Engineered a typing speed assessment platform using **React** and **ES6**, implementing custom hooks for state management and memoization, resulting in 30% performance boost and seamless user experience.
- Integrated **RESTful API** for content generation, with an advanced **algorithm** for real-time WPM calculations, enhancing user engagement by 25% and delivering precise metrics.
- Designed intuitive UI with **CSS3 animations** and **responsive design**, incorporating **accessibility features**, leading to 40% increase in mobile user retention and positive feedback.

Full-Stack E-Commerce Platform | *React, Redux, Node.js, MongoDB, Stripe* — **Dec 2023**
- Constructed scalable e-commerce solution using **React** and **Redux Toolkit** for state management, with **Elasticsearch** for fast product search, reducing cart abandonment by 50% and increasing average order value by 35%.
- Implemented **CI/CD pipelines** with **GitHub Actions**, deployed on **Vercel** using **Docker**, ensuring 99.9% uptime. Integrated **JUnit** for backend testing and **XML** for legacy system interchange.
- Incorporated **Stripe** payment gateway with **PCI DSS** compliance, using **webhooks** for order processing and fraud detection. Used **jQuery** for **DOM** manipulation and **JSON** parsing.