KISHOREKUMAR BATHINI SANKARAN

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SOFTWARE ENGINEER

SUMMARY

Results-driven Full Stack Software Engineer with 2+ years of experience in developing scalable, high-performance applications. Proficient in **Java**, **JavaScript**, and **cloud technologies**, with expertise in **Spring Boot**, **React**, and **AWS**. Demonstrated success in designing RESTful APIs, implementing microservices architecture, and optimizing database performance.

EDUCATION

California State University, Fresno   **Expected graduation: Dec 2024**
Master of Science - Computer Science   *Fresno, California, USA*

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

SKILLS

Languages: Java, JavaScript (ES6+), Python, SQL, C++, Shell Scripting
Frameworks & Libraries: Spring Boot, React.js, Express.js, Node.js, Django
Cloud and DevOps: AWS (EC2, Lambda, S3), Docker, Kubernetes, Jenkins, Git, GitHub, GitLab, CI/CD
Databases & MISC: PostgreSQL, MySQL, MongoDB, RESTful APIs, Microservices, Linux, Networking, Cybersecurity

WORK EXPERIENCE

Software Developer Intern & Instructor | *California State University, Fresno*   **Jan 2024 – Present**
- Developed and maintained a microservices-based web application using **Spring Boot** and **React**, handling over **500 daily active** users and processing 5000+ API requests per day.
- Implemented server-side rendering and dynamic code splitting in React, significantly reducing initial page load time from 3.5 seconds to 2.4 seconds across 10+ **high-traffic** application pages.
- Designed RESTful APIs and optimized complex database queries, improving average response time from **200ms** to **120ms** for critical endpoints serving **1000+** user requests daily.
- Integrated **AWS Lambda** functions for serverless computing tasks, significantly reducing monthly infrastructure costs by $2,000 while maintaining consistent 99.99% uptime and scalability.
- Conducted workshops on secure coding practices and cloud computing for 50+ students, increasing their ability to identify and mitigate common **web application vulnerabilities**.

Software Development Engineer I | *Cognizant Technology Solutions, Chennai, India*   **Aug 2021 – Jul 2022**
- Engineered scalable full-stack web applications using **Spring Boot**, **React**, and **MongoDB**, reducing development time for new features from 4 weeks to 3 weeks on average.
- Implemented **OAuth 2.0** authentication for RESTful and SOAP APIs, significantly enhancing security protocols and handling secure data exchange for 7,000+ active user accounts.
- Developed a robust real-time notification system using **WebSockets**, successfully delivering over 50,000 instant notifications per day and reducing overall server load by 15%.
- Optimized database queries and implemented caching strategies, cutting average page load times from 2.5 seconds to 1.2 seconds for **data-intensive** pages accessed by 5,000+ daily users.

PROJECTS

Microservices-based E-commerce Platform | *Java, Spring Boot, MongoDB, PostgreSQL, React, Redis*   **Ongoing**
- Engineered a scalable e-commerce system using microservices architecture, ensuring fault tolerance and efficient scaling by decoupling core functionalities like user authentication, product catalog, orders, and payments.
- Optimized transaction speeds by incorporating **Redis** for caching. Designed an intuitive frontend with **React.js** and **Redux** for a smooth customer experience.
- Configured an **API Gateway** to manage client requests and facilitated reliable inter-service communication with **RabbitMQ**.

Secure Blogging Platform | Github link | *Node.js, Express.js, PostgreSQL, JWT*   **Jul 2024**
- Developed a dynamic blogging platform with robust user **authentication** and **authorization** using JWT, enhancing overall system security.
- Designed and implemented **RESTful APIs**, integrating with a **PostgreSQL** database for efficient data management and retrieval.
- Incorporated advanced text editing features and optimized application performance, resulting in increased user engagement.

Interactive Typing Speed Test Application | Github link | *React, ES6, REST API, CSS3*   **Jun 2024**
- Developed a typing speed assessment platform with **React** and **ES6**, employing custom hooks for state management, leading to a 30% boost in performance and an enhanced user experience.
- Implemented a **RESTful API** for real-time WPM calculations, refining the algorithm through iterative testing, significantly improving engagement and satisfaction.
- Styled an intuitive UI using **CSS3 animations** and **responsive design**, incorporating accessibility features, which increased mobile user retention and positive feedback.