Praneeth Byna

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Work Experience

Full Stack Developer   **August 2023 – Present**

Oklahoma State University

- Designed and implemented a scalable backend infrastructure using Node.js and Express.js, reducing latency by 50% for student interactions while handling simultaneous requests without performance degradation.
- Developed responsive user interfaces that improved usability by 20% in feedback surveys, ensuring seamless performance across different devices and screen resolutions.
- Engineered a robust state management solution using Context API and Redux, improving component communication and reducing prop drilling by 30%; contributed to an agile development environment with a more efficient workflow.
- Configured a robust NGINX reverse proxy to manage simultaneous client requests, increasing server load capacity to handle 5,000 requests per minute while bolstering security protocols against DDoS attacks.

Django Developer   **May 2023 – August 2023**

InfraTie Solutions (Infratie.com)

- Engineered a robust web application using Django's MVT architecture, streamlining the codebase and enhancing deployment speed by 40%, while ensuring seamless integration with existing databases through efficient migration strategies.
- Implemented geospatial data visualization capabilities to enhance the interpretation and management of sewer data, increasing operational efficiency by 40% and reducing error rates in data analysis by 50%.

Back-End Developer   **November 2020 – December 2022**

Tata Consultancy Services

- Led the design, development, and optimization of scalable, high-performance backend systems using Spring Boot, ensuring efficiency, security, and seamless data flow across distributed microservices architectures.
- Designed an event-driven architecture using Spring Cloud and Kafka, reducing system latency by 30% and enhancing fault tolerance across distributed systems.
- Optimized caching mechanisms with Spring Boot and Redis, reducing API response times by 40% and enabling the system to handle millions of concurrent requests.
- Integrated Spring Security with OAuth2 and JWT to create access control policies, improving security compliance by 50%.
- Developed real-time synchronization between services using WebSockets, ensuring seamless data flow and consistency across microservices in high-demand environments.
- Incorporated comprehensive unit and integration testing strategies using JUnit and Mockito, achieving 90% test coverage and ensuring code reliability and maintainability.

Projects

Orange Wheels - A Ride Pooling and Game Day Parking Solution | *Express.js, MongoDB, Heroku, React.js*

- Created an interactive parking map using Map APIs to provide users with instant access to available spots; streamlined route planning for users, enhancing overall user satisfaction ratings by 15%.
- Initiated the development of a secure in-app chat feature leveraging WebSockets technology, facilitating real-time interactions while ensuring user privacy.

Technical Skills

Programming Languages: Python, C, Java, PHP, JavaScript
Web Development: Spring Framework, Spring boot, Spring MVC, Hibernate, RESTful web services, React, Nodejs, Nginx, Django (MVT), Flask, WebSockets, Microservices, JWT, Kafka
Databases: SQL, MySQL, MongoDB, Redis
Testing: JUnit, Mockito, Integration Testing, Automation Testing
Others: JIRA, SDLC, Documentation, AWS, Docker, Kubernetes, GitHub(version control)

Education

Oklahoma State University, Stillwater   **January 2023 – Present**

Master of Computer Science. CGPA - 3.5/4
Data Structures and Analysis of Algorithms, Cloud Computing, Operating Systems, Software Engineering