SRI PHANI CHARAN TATINENI

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PROFESSIONAL SUMMARY

Software Engineer with over **2 years** of experience in creating efficient, scalable applications. Skilled in Java, React and Database Management with a strong focus on **Full-stack development**. Experienced in using AWS and Agile practices to build reliable solutions that meet user needs.

EDUCATION

George Mason University   **May 2024**
Masters in Computer Science, GPA: 3.73/4.0   *Fairfax, Virginia*

Jawaharlal Nehru Technological University   **May 2022**
Bachelor of Engineering in Computer Science and Engineering   *Kakinada, Andhra Pradesh*

SKILLS

Frontend Technologies: ReactJS, Angular, Javascript, Bootstrap, HTML, CSS, Express.js
Programming Languages and Databases: Java, Python, R, C, C++, Spring Boot, Hibernate, NodeJS, SQL, MySQL, PostgreSQL, MongoDB, NoSQL
Tools: Git, Jira, Kafka, Jenkins, Figma UI, Tableau, Power BI, Unit testing, Selenium, JUnit, Mockito, Linux, Unix, MS Office
Cloud Platforms: Amazon Web Services (AWS), Azure

WORK EXPERIENCE

Software Engineer   **December 2021 - June 2022**
Exposys Datalabs   *India*

- Built a web application for a project tracking tool, NexusTask using **Java** and **ReactJS**, incorporating **REST APIs** for user authentication, creating, browsing, and tracking task status in real-time, within Agile Framework.
- Implemented routing in **React** to reduce load times by 75%, enabling seamless page transitions.
- Optimized **MongoDB** with advanced indexing and sharding, improving query response times by 35%.
- Orchestrated a migration project, transitioning legacy systems from Scala to **Java**, resulting in enhanced performance of 25%.
- Collaborated in an **Agile environment** and conducted **unit testing** to ensure high standards in quality of the software.

Software Engineer   **May 2020 - December 2021**
Embytes Solutions   *India*

- Developed and maintained backend services for a video conference platform SyncStream built on top of WebRTC using **Java** and SpringBoot, ensuring scalability, performance, and reliability.
- Managed version control with **Git**, providing real-time insights and improving monitoring efficiency by 25%.
- Integrated **Jenkins** for automated data updates, ensuring accurate and up-to-date information across all dashboards, reducing manual update time by 45%.
- Partnered with business stakeholders to create data workflows and improve reporting capabilities, driving analytics-based insights and enabling actionable decision-making.
- Conducted development within a **test-driven framework** using **JUnit** and **Mockito**, ensuring high code quality.

PROJECTS

Constructor Worker Helmet Detection Using ResNet Model | *Python, JavaScript, React, Image Processing, Optimization, git*

- Engineered and Developed an optimized desktop application using **Python**, Django, Flask, and a trained ResNet model with TensorFlow for accurate helmet detection.
- Achieved 95.6% detection accuracy, utilizing React for the frontend and a trained ResNet model with TensorFlow for real-time safety monitoring in construction environments.

Hospital Management System | *PostgreSQL, Node.js, JWT, React, REST API, Express, git*

- Implemented efficient search functionalities for quick retrieval of records, streamlining the process of accessing patient and doctor data through search queries.
- Utilized **Node.js** for backend processing, supporting real-time updates and handling hundreds of concurrent queries with minimal latency.

PUBLICATIONS

"Internet of Things based UV Automobile Sanitization", by IEEE in the "2021 2nd International Conference on Smart Electronics and Communication". DOI: 10.1109/ICOSEC51865.2021.9591934 .(Available at https://ieeexplore.ieee.org/author/37089028017)

CERTIFICATIONS

AWS Certified Solutions Architect – Associate, **AWS** Certified Cloud Practitioner, **Azure** Fundamentals, **Salesforce** Associate