

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, Python, 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

Masters in Computer Science, GPA: 3.73/4.0

May 2024

Fairfax, Virginia

Jawaharlal Nehru Technological University

Bachelor of Engineering in Computer Science and Engineering

May 2022

Kakinada, Andhra Pradesh

SKILLS

Frontend Technologies: ReactJS, Angular, Javascript, Bootstrap, HTML, CSS, Express.js

Programming Languages and Databases: Java, Python, R, C, Spring Boot, NodeJS, SQL, MySQL, PostgreSQL, MongoDB, NoSQL

Tools: Git, Jira, 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 MERN stack, incorporating **REST APIs** for user authentication, creating, browsing, and tracking task status in real-time, within Agile Framework.
- Implemented routing 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%.

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 Spring Framework, ensuring the 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%.

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.

Job Application Portal | *React, Node.js, Express, JavaScript, REST API, PostgreSQL, git*

- Designed sleek, responsive UI and complete CRUD operations for job postings and user data.
- Optimized database performance using **PostgreSQL** to handle large datasets, ensuring seamless operation and scalability during peak usage, supporting over 200 job applications per minute.

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, **CCNA**: Intro to Networks