

MAHESWARI THOKALA

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EDUCATION

Texas Tech University, Lubbock, Texas

Master of Science in Computer Science

Aug 2022 - May 2024

GPA - 3.5 / 4.0

RVR & JC College of Engineering, Andhra Pradesh, India

Bachelor of Technology in Information Technology

Aug 2018 - May 2022

GPA - 3.4 / 4.0

EXPERIENCE

Full stack Developer Intern – ColomboAI, Remote

Jul 2024 - present

- Engineered scalable backend services with **TypeScript** and **Express.js**, focusing on user management for a social media platform.
- Integrated OAuth authentication, OTP verification, and MFA with SMS codes and authenticator apps, reducing unauthorized access attempts by 40%.
- Enhanced system performance by optimizing backend processes, resulting in a 25% faster in response times and a 15% increase in throughput for high-traffic scenarios.

Frontend Developer – Texas Tech University, Lubbock, TX

Jan 2023 - May 2024

- Architected and deployed a scalable web-based educational system leveraging **HTML**, **CSS**, **Bootstrap**, **JavaScript**, **JSP**, **MySQL**, and **.NET**, enhanced user experience.
- Integrated secure user authentication, dynamic content management, and interactive quizzes, resulted in a 50% boost in platform engagement and a 30% improvement in user retention rates.
- Analyzed user feedback and conducted usability testing on an established online learning platform, resulting in a 20% improvement in user satisfaction.

Software Engineer – TCS, Remote

Sep 2021 - Jul 2022

- Developed and integrated **RESTful APIs** using **.NET Core**, improving data exchange between frontend and backend systems for a smoother user experience.
- Increased **SQL Server** efficiency by optimizing stored procedures and refining query performance, resulting in a 30% reduction in load times.
- Collaborated with cross-functional teams to design and roll out new features, enhancing the user experience and meeting business requirements.

Web Development Intern – Unison techno solutions, Remote

Jan 2021 - Mar 2021

- Crafted responsive check-out page Front-end using **HTML**, **CSS**, **JavaScript** and **Bootstrap**.
- Back-end with **PHP** and **Microsoft SQL**, utilizing **Git** for version control.

SKILLS

Programming Languages: C, C++, Python, Java, JavaScript.

Development: HTML, CSS, Bootstrap, React.js, REST APIs, NodeJS, ExpressJS, .Net Core, Flask.

Tools: Vscode, Git, Github, Postman, Docker, Jira, AWS, Azure

Database Management: MySQL, SQL Server, MongoDB, PostgreSQL.

PROJECTS

Pneumonia Detection | Python, Keras, Tensorflow, Google colab, pandas

Jan 2022 - Mar 2022

- Devised and deployed an AI-powered convolutional neural network algorithm tailored for analyzing chest X-ray images. Achieved a remarkable accuracy rate of 92% in identifying pneumonia cases, leading to a 40% reduction in misdiagnoses.

Churn Prediction (In Telecom sector) | Python, ML

Oct 2022 - Dec 2022

- Applied Random Forest Algorithm to detect high-risk telecom customers, identifying key churn factors and reducing attrition by 18% through targeted retention strategies.

Online Blood Donation Management System | php, MySQL, Javascript, Html, CSS

Oct 2021 - Dec 2021

- Developed a centralized data management system for blood donors and blood groups, optimizing blood donation camp organization, resulting in a 30% increase in successful donations and a 25% reduction in administrative errors.