

MAHESWARI THOKALA

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PROFESSIONAL SUMMARY

Accomplished Full Stack Developer skilled in Node.js, Express, React, MongoDB, and .NET, Python with a strong emphasis on developing user-friendly and scalable web applications. Demonstrated success in fast-paced environments, delivering innovative solutions and enhancing user experiences through exceptional problem-solving abilities.

SKILLS

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

Development: HTML, CSS, Bootstrap, React.js, REST APIs, Node.JS, Next.Js, Express.JS, Typescript, .Net Core, Flask.

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

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

Operating Systems & Experience Areas: Linux, Ubuntu, Agile Methodologies, Scrum, Cyber Security, SDLC

EXPERIENCE

Full stack Developer Intern | Colombo AI

Jun 2024 – present | Remote

- 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.
- Developed the vibes frontend and story feature using **React**, boosting user engagement by 20% and increasing daily active users by 15% within the first month.
- Deployed **AWS S3** for file storage and retrieval and leveraged **MongoDB** for efficient metadata management and scalable data solutions.

Frontend Developer | Texas Tech University

Jan 2023 – May 2024 | Lubbock, TX

- 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, with data stored and managed using SQL databases.

Software Engineer | TCS

Sep 2021 – Jul 2022 | Mumbai, India

- 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.
- Revolutionized deployment processes by implementing modern **CI/CD** pipelines, accelerating development and release cycles.

Web Development Intern | Unison techno solutions

Nov 2020 – Jul 2021 | Bangalore, India

- Crafted a responsive checkout page front-end using **HTML**, **CSS**, **JavaScript**, and **Bootstrap**, ensuring an intuitive and user-friendly experience.
- Developed the back-end with **PHP** and **Microsoft SQL**, implementing efficient data management and utilizing **Git** for seamless version control and collaboration.

EDUCATION

Texas Tech University, Lubbock, Texas

Aug 2022 – May 2024

Master of Science in Computer Science GPA – 3.5

Courses: Data Structures, Design and Analysis of Algorithms, Design Patterns, Operating Systems, Machine Learning.

PROJECTS

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

- 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

- 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

- 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.