

AMRITHA MENON

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EDUCATION

Rochester Institute of Technology,

Master of Science in Computer Science

- Relevant courses - Object Oriented Programming, Data Structures, and Algorithms, Machine Learning.

Sri Ramakrishna Engineering College

Bachelor of Engineering in Computer Science

- Executive Member of the Computer Society of India.
- Relevant courses - Introduction to Web Development, Software Engineering Practices, and Principles.

Rochester, NY

August 2020 - May 2023

Tamil Nadu, India

August 2016 - May 2020

WORK EXPERIENCE

Vuzix Corporation

Software Engineer Intern - Frontend

- Managed and developed the front end of a web application using NodeJS, ReactJS, TypeScript, and CSS, and microservices for the solutions team of 8 people and aided the launch of the website for a private preview.
- Facilitated the integration of JavaScript, CSS, and Fluent UI framework templates for routing & navigation flows, providing a smoother website navigation experience for 10M+ users.
- Collaborated with backend developers on using CosmosDB and UI/UX designers by using Figma to enhance the front end of the website to make it more interactive and responsive, increasing the website's performance by 20%.
- Programmed & deployed the web application using Azure DevOps and Gitlab.

Rochester, NY

August 2022 - December 2022

Oxygen Creations Inc

Software Developer Intern

- Maintained and developed web applications using JavaScript, Angular, HTML, and CSS for multiple clients.
- Optimized MySQL databases by indexing and query optimization leading to 50% reduction in query response time.
- Collaborated with cross-functional teams and wrote unit tests and resolved bugs resulting in a seamless user experience and contributing to 10% reduction in customer support tickets.

Tamil Nadu, India

January 2020 - August 2020

PROJECT EXPERIENCE

Social Media Application (MERN)

- Developed a web-based platform, using NodeJS, ReactJS, JavaScript, ExpressJS, CSS, and MongoDB, for users to share pictures and posts, including Like and Comment functionality.
- Managed the web application by using the MERN stack and implemented user authentication and authorization using JWT tokens.
- Developed RESTful APIs and increased the code's efficiency by 15% with the usage of React Hooks, Redux.

Movie Recommender Chatbot

- Implemented a conversational AI-based movie recommendation chatbot using Python, Tensorflow, Flask, and the MovieLens dataset containing data from over 27000 movies.
- Utilized NLP techniques using NLTK to build the chatbot and then integrated it with a Machine Learning based recommendation system to provide personalized movie suggestions to the user with an accuracy of 97%.
- Deployed the chatbot using Heroku and used Git Actions for CI/CD pipelining.

Handwritten Character Recognition

- Created a system that recognizes the handwritten characters in an image and returns the output as text.
- Built an LSTM CNN model that fed the features from the IAM dataset, which contained over 10,000 images, to the model.
- Achieved an accuracy of 92% on the machine learning model and designed the frontend of the system using Django, HTML, and CSS where the users could upload the image as input and view the output in text format.

SKILLS & INTERESTS

Programming Languages: Python, JavaScript, TypeScript, HTML5, CSS, R, Java, C++.

Database Technologies: MySQL, MongoDB, PostgreSQL.

Tools & Libraries: NodeJS, React, Vue.js, Django, Flask, Gitlab, Bitbucket, JIRA, Azure DevOps.

Operating Systems: Linux, Unix, Windows.