

AMRITHA MENON

amritha.menon1947@gmail.com | [linkedin.com/in/amrithamenon1998](https://www.linkedin.com/in/amrithamenon1998) | github.com/amritha-menon/
Fairfax, VA | (646) 508-5286 | amritha-menon.github.io/amrithaPortfolio/

EDUCATION

Rochester Institute of Technology,

Master of Science in Computer Science

Rochester, NY

August 2020 - May 2023

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

Sri Ramakrishna Engineering College

Bachelor of Engineering in Computer Science

Tamil Nadu, India

August 2016 - May 2020

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

WORK EXPERIENCE

Vuzix Corporation

Software Engineer Intern - Frontend

Rochester, NY

August 2022-December 2022

- 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% and getting in more customers.
- Programmed & deployed the web application using Azure DevOps and Gitlab.

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.

Weather Dashboard with Predictive Analysis

- Built an interactive weather dashboard using React and Axios, displaying up-to-date weather data for users' locations.
- Created a predictive model in Python, achieving 93% accuracy in forecasting future weather conditions based on 20 years of historical data, enhancing the dashboard's functionality.
- Effectively leveraged AWS Lambda, Amazon S3, and API Gateway to automate data storage, resulting in a 12% reduction in data processing time and enabling efficient historical weather data analysis and RESTful API integration.

Movie Recommender Chatbot

- Implemented a conversational AI-powered movie recommendation chatbot using Python, Tensorflow, Flask, and the MovieLens dataset containing data from over 27000 movies.
- Utilized Natural Language Processing using NLTK to build the chatbot and then integrated a ML 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: Java 8, Python, JavaScript, TypeScript, HTML5, CSS, R, C++.

Database Technologies: MySQL, MongoDB, PostgreSQL.

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

Operating Systems: Linux, Unix, Windows.