

# SREE CHARITHA MEKA

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## EDUCATION

George Mason University, *Fairfax, VA*

Jan 2023 – May 2024

Masters of Science in Computer Science, Concentration in Software Engineering

GPA : 4.0/4.0

Jawaharlal Nehru Technological University, *Hyderabad, Telangana*

Aug 2016 – May 2020

Bachelors of Technology in Computer Science and Engineering

GPA : 3.77/4.0

## TECHNICAL SKILLS

**Programming Languages:** C, JavaScript, Typescript, Python, Java Spring Boot

**Web Technologies:** HTML5, CSS3, React, React Native, Node.js, NextJs, Angular, Tailwind, Sequelize, Express, Unit Testing (Jest, Enzyme, Chai & Mocha)

**Databases:** MySQL, PostgreSQL, MongoDB, Oracle Database

**Software Tools:** Git, AWS(S3, EC2, RDS, IAM, DynamoDB, Lambda), Kubernetes, Jenkins, Docker, Jira, Figma

## EXPERIENCE

Graduate Assistant - System Analysis and Design Course

May 2023 – Present

George Mason University

*Fairfax, Virginia*

- Excelled in System Design and Analysis with a focus on **SDLC methodologies**, documentation of system requirements, **designing UML and DFDs**, application of **UX design principles**. Instructed 100+ students in feasibility analysis, **process modeling**, and **use-case scenario development**.

Software Development Engineer

Jan 2020 – Dec 2022

West Agile Labs

*Hyderabad, Telangana*

- Designed and launched 6+ web and mobile applications using **React, React Native, and Node.js**, Integrating responsive design with **HTML5** and **CSS3** collectively reached over 100,000 users.
- Architected and engineered robust server-side logic using **NodeJS** and **Express framework**, integrating **middleware** solutions to manage **REST APIs**, improving system scalability and reducing response times by up to 25%.
- Refactored legacy code to **ES6 features, hooks, redux, context API, and functional components**.
- Developed **frontend and backend testing suites** improving code reliability by 60%. Established and maintained **CI/CD pipelines** using Jenkins achieving 60% reduction in manual deployment effort.
- Reduced applications loading time by 30% through optimization techniques like **code splitting, lazy loading, memoization, reduced re-renders, dependency optimizations, debounce and throttling**.
- As Squad Lead, directed a team of 10 developers integrating agile management practices with **Git, JIRA, and Confluence** to streamline workflows, and increase productivity by 40%. Achieved 100% on-time delivery rate through **sprint cycle execution, including planning, user story refinement, and task delegation**.

Application Development Intern

Jun 2019 – Dec 2019

Engineer's Hub, Mivo Solutions

*Hyderabad, Telangana*

- Engineered responsive UIs for mobile applications with **React Native**. Enhanced project scalability by developing and deploying 10+ **REST microservices** through Serverless framework, integrating custom React components with **Axios** for optimized asynchronous HTTP requests.

## PROJECTS

Transcribe | **React, Flask, SpeechRecognition, Pydub**

Feb 2024

- Spearheaded the development of Transcribe, a React and Python-based transcription service, integrating React 5+ Custom Hooks and Axios for a dynamic user interface and efficient API communication.
- Implemented secure authentication and authorization using **JWT** and **OAuth 2.0**, ensuring robust security measures for user data and seamless third-party login functionality.
- Leveraged **Google Cloud Speech-to-Text API** and **SpeechRecognition, Pydub** libraries for high-accuracy audio to text conversion, supporting 20+ languages and multiple audio formats, achieving a 95% accuracy rate.

Social Media Application - **NextJs, Typescript, Tailwind, NodeJs**

Dec 2023

- Crafted a full-stack social media application facilitating over 100 users to create profiles, share updates, and interact. Demonstrated proficiency in user authentication, managing complex application state, and database design to support extensive user-generated content.
- Integrated **Twilio's Programmable Chat API** for messaging features, supporting an average of 500+ daily messaging threads. Established **Pushy** for real-time notifications, achieving a 99% delivery rate on alerts.

University Department Website - **Angular, Spring Boot, Kubernetes, Amazon RDS**

May 2023

- Led the development of a web application utilizing **Angular2, RESTful Web Services, Spring Boot, and Amazon RDS**, facilitated surveys for 500+ students, automated data extraction from 100+ PDF documents weekly, and supported comprehensive data analysis tasks.
- Directed the deployment and scaling of applications using **Rancher with Kubernetes**, and introduced **Docker** for efficient containerization, achieving a 50% reduction in deployment times on AWS EC2 platforms.
- Implemented a **Jenkins** pipeline for continuous integration and deployment, automating build and deployment processes.