

# SREE CHARITHA MEKA

📞 571-564-8863 ✉️ [smeka2@gmu.edu](mailto:smeka2@gmu.edu) 🔗 [linkedin.com/in/charitha-meka](https://www.linkedin.com/in/charitha-meka) 👤 [Portfolio](#)

## 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**

**Coursework:** UI Design and Development, Component based Software Development, Software Design and Architecture.

**Jawaharlal Nehru Technological University, Hyderabad, Telangana**

**Aug 2016 – May 2020**

*Bachelors of Technology in Computer Science Engineering*

**GPA : 3.77/4.0**

## PROFESSIONAL EXPERIENCE

**Graduate Assistant - System Analysis and Design Course**

**May 2023 – Present**

*George Mason University*

*Fairfax, Virginia*

- Demonstrate proficiency in **SDLC methodologies**, documenting system requirements, **designing UML and DFDs**, applying basic UX design principles. Led and assisted 100+ students in grasping feasibility analysis, process modeling, use-case scenarios etc.

**Software Development Engineer**

**Jan 2020 – Dec 2022**

*West Agile Labs*

*Hyderabad, Telangana*

- Designed and developed 6+ web and mobile applications, including those for automating laundry business, social media platforms, and a booking application using **React, React Native, and Node.js**.
- Used NodeJS and Express framework to build server-side logic and applied with middle-wares to handle HTTP requests.
- Refactored legacy code to **ES6 features** and new features like **hooks, redux, context API, and functional components**. Established **test suites** for API's and UI functionality using **Mocha and Chai, Jest and Enzyme** respectively to ensure performance, quality.
- Collaborated closely with Product and Design teams to gain understanding of their functional needs and design specifications and worked collaboratively with the Architecture and Development teams to propose tailored solutions.
- Led a 10-member team as **Squad Lead**, overseeing sprint brainstorming, task breakdown and distribution among developers.
- Mentored a team of 3+ junior developers, solidifying my knowledge, honing collaborative problem solving approach, fostering clear communication and impactful presentations.

**Application Development Intern**

**Jun 2019 – Aug 2019**

*Engineer's Hub, Mivo Solutions*

*Hyderabad, Telangana*

- Learned **React Native** and worked on UI/UX of mobile application with smooth flow, Utilized Android Studio and XCode development environment to visualize and generate build in both Android and iOS respectively

## PROJECTS

**SkinBook | React, Flask, AWS EC2**

**Jan 2024 - Feb 2024**

- Developed a website for real-time, personalized homemade skincare remedies, utilizing CNN and ML algorithms (TensorFlow, Keras) for real-time skin analysis. Achieved high accuracy in identifying skin concerns and providing personalized routines.

**University Department Website | Angular, Spring Boot, Kubernetes, Amazon RDS, Docker**

**May 2023 - Aug 2023**

- Spearheaded the development of an Angular web application facilitating student surveys, data extraction from PDFs, and data analysis, leveraging **Amazon RDS** for efficient data management.
- Orchestrated deployment and scaling using **Rancher with Kubernetes** and utilizing **Docker** for containerization on AWS EC2.
- Implemented a **Jenkins** pipeline for continuous integration and deployment, automating build and deployment processes.

**MiLegacy | React, Typescript, NodeJs**

**Nov 2022 - Dec 2022**

- Streamlined and crafted intricate, responsive UI features encompassing establishing social connections, posting content, story functionality, leading to a 25% increase in user engagement with consistent multi-device compatibility.
- Reduced application loading time by 30% through optimization techniques like **code splitting, lazy loading, memoization, reduced re-renders, dependency optimizations, debounce and throttling**.
- Developed backend functionalities using NodeJS, including secure JWT authentication for user logins. Implemented features for users to create, edit, and delete posts, along with support for uploading and displaying images.

**Gradshack | React, HTML, Tailwind CSS**

**Dec 2020 - Dec 2022**

- Crafted responsive UI components for social media application promoting network-building and investment opportunity. Managed weekly meetings with stakeholders, communicated updates, and presented complex concepts, enhancing rapport.
- Integrated **twilio** for chatting capabilities, **Cordova** wrapper for iOS build generation, Pushy for **real time notifications**.

**TryCents | JavaScript, React, React Native, NodeJs, Redux, Sass**

**Jan 2020 - Nov 2022**

- Engineered web and mobile applications from ground for laundry automation, which encompasses custom **CRM, dashboard, live-link, and dedicated apps for employees, drivers, and intake**. This led to 60% enhancements in laundry operations.
- Received **Mountain Mover Award** for exceptional contributions and the consistently delivering high quality products on time.
- Participated in project setups, POCs, established reusable services, built **custom components and hooks**, integrated secure routes, and authored FE and BE test cases that achieved 100% coverage, resulting in a 27% reduction in system bugs.
- Improved React Native employee application by refactoring class to pure functional components, **optimizing navigation routes**, enhanced list rendering with FlatList, state normalization, achieving 30% reduction in loading times, app size decreased by 25%.
- Enhanced backend functionality using Node.js, implementing various API integrations for streamlined operations. Integrated Stripe for efficient and secure payment processing.

## TECHNICAL SKILLS

**Programming & Frameworks:** C, JavaScript, Typescript, Python, HTML, CSS, React, React Native, Node.js, Jest, Sequelize, Express  
**Databases & Software Tools:** MySQL, PostgreSQL, Postman, Git, Jira, Figma, React DevTools, VS Code, Kubernetes, Jenkins, AWS