Meghasrivardhan Pulakhandam

970-694-0036 | Email | LinkedIn | Github | Portfolio

JavaScript, Node.js | React, Angular | Docker, AWS | M.S. Computer Science

Education

Masters in Computer Science – University of Colorado Boulder - **CGPA: 4/4**   Aug 2024 – May 2026
Bachelors in Computer Science – SRM University - **CGPA: 3.985/4**   Aug 2020 – May 2024

Experience

Infosys - (SRM) *IOS Design Development Intern - Chennai, India*   Apr 2023 – Jun 2023
- Directed the development of Parking-Stance prototype using IoT sensors and real-time analytics, implementing automated parking management solutions that can reduce average parking space allocation time by 40% and increased facility utilization by 25%
- Orchestrated the creation of a sensor-based system to track vehicle start and exit times, automatically calculating parking charges that improved the efficiency and user experience.

AnsrCoach *Flutter App Developer Intern - Remote, India*   Jan 2023 – Feb 2023
- Spearheaded the development of a cross-platform study application using Flutter, enhancing student engagement by 30% through interactive animations and optimizing real-time data updates with a NodeJS backend and MongoDB.
- Collaborated with educational stakeholders to ensure the app's features met academic needs, resulting in a 30% increase in user satisfaction while designing a scalable, user-friendly solution to enhance the learning experience.

RoboLab (SRM Club) *Machine Learning Developer - Chennai, India*   May 2022 – Jul 2022
- Developed a Machine Learning model using Arduino software for Tetrix, improving object detection accuracy by 10% and enhancing overall project capabilities through system optimization that boosted project efficiency by 15%.
- Engineered a server-client model using Auto-auto software, enhancing the car's image processing capabilities by 25% and achieving a 20% increase in real-time image analysis accuracy through extensive testing.

AjnaAI - (SRM) *Deep Learning Developer Intern - Remote, India*   Mar 2022 – Apr 2022
- Led a team of 7 in developing an AI-based fire detection model using Deep Learning algorithms on the Jetson Nano Developer Kit, increasing detection accuracy by 30% and improving overall system performance by 25%.
- Directed model optimization through rigorous testing, resulting in a 40% increase in detection speed and reliability. Authored technical documentation and collaborated with stakeholders to prioritize key enhancements, streamlining workflows

Technical Skills

Languages: C/C++, Dart, Go, HTML, Java, JavaScript, NoSQL, Python, SQL, TypeScript

Tools & Libraries: AWS RDS, AWS S3, Docker, Git/GitHub, Google Cloud, Kubernetes, NPM, Redis, Shell/Bash Ubuntu, Snowflake, TensorFlow, Tableau, PowerBI, Postman, Vite

Frameworks: Angular, CSS, Express, Flutter, ReactJS, Redux, NodeJS, GraphQL, Next.js, Bootstrap, jQuery, React Native, Tailwind CSS, SCSS, ShadCN/UI, GSAP

Databases: Firebase, MySQL, Oracle SQL, PostgreSQL, MongoDB, Neo4j, SQLite

Testing & Deployment: Jest, Cypress, GitHub Actions, GitLab CI/CD

UI/UX & Design: Figma, Fresco, Lottie, Illustrator, Photoshop, Procreate, Rive

Productivity & Documentation: Jira, Notion, Obsidian

Projects

CodeSketch | *React, Node.js, Express, WebSockets, JavaScript, Collaborative Environment, Git/GitHub, Jest*
- Built an innovative real-time, collaborative code editor and drawing board, enabling users to seamlessly collaborate on both code and visuals in a shared environment, improving workflow and creativity.
- Leveraged WebSockets for efficient, instant updates between users, and implemented secure session management protocols to ensure data integrity and smooth, uninterrupted collaboration across various platforms.

Nostalgia Manager | *React, TypeScript, SCSS, Chrome Storage API, Git/GitHub, Fresco, Cypress*
- Developed a browser extension to save and manage copied texts, addressing the clipboard limitations on macOS by allowing users to store and easily retrieve previously copied content, improving workflow efficiency.
- Integrated a user-friendly interface with a responsive design, enabling seamless note management and quick access to saved texts, while ensuring data persistence using Chrome's local storage for a smooth, reliable experience.

Voting System For Local Communities | *MongoDb, Express, React, Node.js, AWS, Redis, Full-stack, Agile, Jest, Postman*
- Engineered a secure and scalable digital voting platform for local communities using the MERN stack, integrating AWS and Redis for efficient data storage and real-time processing, while ensuring robust security and user-friendly design for seamless participation.