Meghasrivardhan Pulakhandam (Megha)

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

JAVA, SPRINGBOOT | REACT, NODEJS | DOCKER, AWS | M.S. COMPUTER SCIENCE

EDUCATION

Masters in Computer Science – University of Colorado Boulder — Aug 2024 – May 2026

Bachelors in Computer Science – SRM University — 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 reduced 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 Engineer - 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

TECHNICAL SKILLS

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

Tools & Libraries: AWS RDS, S3, EC2, Docker, Git/GitHub, Google Cloud, Kafka, Kubernetes, NPM, Redis, Shell/Bash, Snowflake, Supabase, TensorFlow, Postman

Frameworks: CSS, Express, Flutter, ReactJS, Redux, NodeJS, GraphQL, Next.js, Bootstrap, React Native, Tailwind CSS, SASS, Spring/Spring Boot

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

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

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

PROJECTS

CodeSketch | *React, Node.js, Express, WebSockets, JavaScript, Git/GitHub, JWT*

- Designed and developed a high-performance, real-time collaborative code editor and drawing board using WebSockets and event-driven architecture, improving synchronization efficiency by 30% and boosting team productivity by 40%
- Implemented JWT authentication, role-based access control (RBAC), and optimized server-side event handling to enhance security, reduce API response time by 25%, and ensure horizontal scalability for high concurrent users

Nostalgia Manager | *React, TypeScript, SASS, Chrome Storage API, Git/GitHub*

- Engineered a browser extension for advanced clipboard management, overcoming macOS limitations by enabling persistent text storage and retrieval, boosting workflow efficiency
- Integrated a responsive, user-friendly UI with state management and Chrome Storage API, ensuring seamless note organization, quick access to saved content, and data persistence for enhanced user experience

Mind-Bloom | *TypeScript, React, Express, PostgreSQL, JWT, Prisma, GCP, TailwindCSS*

- Architected and implemented a full-stack mental wellness application featuring mood tracking, journaling, and personalized affirmations, resulting in a 45% increase in user engagement and daily journaling consistency
- Developed a secure authentication system with JWT and role-based access control, integrated with PostgreSQL database using Prisma ORM, and deployed on Google Cloud Platform for scalability and 99.9% uptime reliability