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 - **CGPA: 3.8/4** Aug 2024 – May 2026
Bachelors in Computer Science – SRM University - **CGPA: 3.985/4** Aug 2020 – May 2024

Experience

Infosys (SRM) - *Software Engineer Intern – Prototype App Development - Chennai, India* Apr 2023 – Jun 2023
- Engineered a prototype parking management system with mobile workflows and backend allocation logic, achieving 40% faster slot assignment and 25% higher utilization in controlled test scenarios.
- Architected IoT-based event tracking and automated billing pipelines for the prototype, improving fault detection and demonstrating scalable enhancements to system reliability and user experience.

AnsrCoach - *Software Development Engineer Intern - Remote, India* Jan 2023 – Feb 2023
- Developed and optimized a cross-platform education app with Flutter frontend, Node.js backend, and MongoDB, enabling real-time data synchronization and reducing API latency by 25%.
- Transformed stakeholder-driven requirements into scalable features, resulting in a 30% improvement in student engagement and 30% higher user satisfaction, while ensuring maintainable, production-ready codebase design.

RoboLab (SRM Club) - *Software Engineer – Server-Client Systems - Chennai, India* May 2022 – Jul 2022
- Constructed a distributed server–client pipeline for real-time image processing in autonomous vehicles, improving accuracy by 20% and throughput by 25%.
- Enhanced system reliability and efficiency through resource-aware design and rigorous testing, achieving a 15% increase in overall project performance and enabling dependable deployment for robotics applications.

AjnaAI (SRM) - *Software Engineer Intern – Deep Learning & Distributed Systems - Remote, India* Mar 2022 – Apr 2022
- Led a team of 7 to build a distributed fire detection system on Jetson Nano hardware, integrating deep learning with embedded system design to improve detection speed by 40% and system reliability by 25%.
- Executed performance optimizations and instituted robust testing pipelines, ensuring fault-tolerant operation and high availability in safety-critical environments.

Technical Skills

Programming: Java, JavaScript, TypeScript, C/C++, Go, Python, SQL, Linux/Unix, Git, Data Structures & Algorithms, Object-Oriented Programming

Backend: Spring Boot, Node.js, Express, REST API, GraphQL, Microservices, Maven/Gradle, System Design

Frontend: React, Next.js, React Native, Flutter, Redux, Sass, CSS, TailwindCSS, Bootstrap

Databases: PostgreSQL, MongoDB, MySQL, DynamoDB, CassandraDB, AWS Aurora, Oracle, Firebase

Cloud/DevOps: AWS (ECS, S3, RDS, Lambda, Cloudwatch, API Gateway, Redshift), GCP, Docker, Kubernetes, Redis, Kafka, CI/CD (GitHub Actions, GitLab), Snowflake, Terraform

Testing: Jest, Cypress, Postman, Mocha

Design/Creative Tools: Figma, Illustrator, Photoshop, Fresco, 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%
- Integrated 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* 🔗
- Built a cross-browser extension for advanced clipboard management, enabling persistent text storage and retrieval across sessions, reducing repetitive typing tasks by 80% and saving users 2 hours per week.
- Crafted a responsive UI with React state management and Chrome Storage API, accelerating note organization and retrieval speed by 40% while ensuring reliable data persistence across browsing sessions.

Mind-Bloom | *TypeScript, React, Express, PostgreSQL, JWT, Prisma, GCP, TailwindCSS* 🔗
- Architected and deployed 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
- Programmed a secure authentication system with JWT and role-based access control, merged with PostgreSQL database using Prisma ORM, and deployed on Google Cloud Platform for scalability and 99.9% uptime reliability

Slick Chat | *NextJS, Socket.io, Redis, Kafka, Express, PostgreSQL, Google OAuth, Prisma, GCP, Sass, Vercel* 🔗
- Developed and deployed a full-stack, real-time chat application featuring Google OAuth authentication, Socket.io event streaming, and PostgreSQL with Prisma ORM, achieving secure, low-latency messaging with fault-tolerant data persistence across distributed systems.
- Orchestrated a high-availability backend by leveraging Kafka for event-driven message queuing, Redis for in-memory caching, and AWS/GCP cloud deployment pipelines, ensuring scalable performance, seamless horizontal expansion, and 99.9% uptime reliability for concurrent users.