

Meghana Tummala

571-544-2710 | mona.tummala@gmail.com | linkedin.com/in/meghana | github.com/meghana

EDUCATION

George Mason University

Master's in Computer Science

Fairfax, VA

Aug 2023 – May 2025

SRM University

Bachelor's in Computer Science

AP, India

May 2019 – May 2023

EXPERIENCE

Front-end Developer

Feb 2025 – Present

Eduverse (early-stage Startup)

Fairfax, VA

- One of 10 core team members driving the development of an AI-powered career platform using AWS SageMaker, Bedrock, and Amazon Personalize to generate personalized learning experiences.
- Built scalable React.js front-end with Redux for optimized state management and integrated RESTful APIs from a Django backend.
- Implemented JWT-based authentication and PostgreSQL database management for secure user data handling.

Software Engineer Intern

Jan 2023 – July 2023

Advance Aqua Biotechnologies India Pvt Ltd

Vijayawada, India

- Developed and maintained internal tools for inventory, logistics, and order tracking using the MERN stack, improving operational efficiency by 30%.
- Integrated ERP features using Java Spring Boot and PostgreSQL, streamlining cross-department processes and reducing manual overhead.
- Collaborated with cross-functional teams to gather requirements, deploy solutions, and ensure scalable system design aligned with business needs.

Lead Technician

April 2024 - Present

George Mason University

Fairfax, VA

- Led and trained a team of student video technicians to support high-profile university events, broadcasts, and live productions, ensuring seamless execution through strong coordination and real-time problem-solving.
- Managed complex A/V setups involving video switchers, sound consoles, screens, and stage lighting; collaborated with faculty and event organizers to deliver high-quality technical experiences under tight deadlines.

Data Science Intern

June 2021 - August 2021

APSSDC

Vijayawada, India

- Gained hands-on experience with data preprocessing, exploratory data analysis (EDA), and basic model building.
- Assisted in small-scale projects, applying ML algorithms and data analysis techniques under mentorship.

PROJECTS

Automate Insurance Claims | Gemini Document Understanding, Python, OCR, and LLMs

June 2025 - June 2025

- Developed an AI-driven system to automate the extraction of patient data from 30-50 page medical referrals and populate insurance prior authorization forms.
- Engineered robust solutions to accurately complete hundreds of insurance-specific forms, handling conditional logic and accommodating diverse drugs and insurers despite inconsistent clinical data.
- Significantly improved efficiency and accuracy in insurance claims processing by automating data extraction and form population, reducing manual effort and processing time.

AI Interview Prep Chatbot | GPT-4.0 mini, OpenAI API, Next.js, React.js, Vercel

August 2024 - September 2024

- Developed an AI-powered chatbot using GPT-4.0 mini for technical and theoretical interview preparation.
- Integrated OpenAI API for real-time coding challenge generation and evaluation to enhance candidate readiness.
- Deployed a scalable, responsive web app using Next.js, React.js, and Vercel for seamless user interaction.

Pantry Organizer App | Next.js, React.js, Firebase, Vercel

August 2024 - August 2024

- Built a full-stack pantry management system with Next.js, Material UI, and Firebase for inventory tracking.
- Implemented real-time data storage and retrieval using Firebase for improved efficiency.
- Deployed on Vercel with CI/CD, ensuring fast and reliable updates.

University Survey Form | Angular-2, Spring Boot, RESTful Web Services, AWS S3, EC2, JDBC/JPA, JSON/Ajax

February 2024 - May 2024

- Revamped a university survey form into an interactive, user-friendly web application.
- Implemented real-time validation and auto-fill using Ajax for a smoother user experience.
- Integrated AWS S3 and EC2 for scalable storage and deployment.
- Crafted an intuitive form validation mechanism to ensure data quality and user compliance with input standards.

Loyalty Rewards Application | Android Studio, Java, SQL (Oracle), JSP, Apache Tomcat, Volley, XML

June 2025 - June 2025

- Developed a customer loyalty rewards app with features like transaction history, family point sharing, and prize redemption.
- Integrated Oracle SQL and JSP for seamless data management and dynamic updates.
- Used Android's Volley library for efficient API calls and secure data transfer.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++, SQL, Typescript

Frameworks: ReactJS, Next.js, Firebase, AWS S3, EC2, OpenAI API, Angular, Apache Tomcat, Jenkins, XML, Docker, Kubernetes, Bootstrap, Material UI, Spring Boot, Django, RESTful APIs, JDBC/JPA, PostgreSQL, AIoT, Data Structures

Developer Tools: Git, Agile, SDLC, JIRA, CI/CD Pipelines, Vercel, Android Studio, SQL(Oracle), Postman, GCP, Hugging Face, UI/UX Design, Linux