Mohan Priya Mulagapu

513-615-1294 | mohanpriyamulagapu@gmail.com | linkedin.com/in/mohan-priya-mulagapu | github.com/mohanpriya20

EDUCATION

University of Cincinnati   Cincinnati, OH
Master of Engineering, Computer Science   *May 2025*

Raghu Engineering College   Visakhapatnam, AP, India
Bachelor of Technology, Computer Science and Engineering   *July 2021*

EXPERIENCE

Software Development Engineer   Nov 2024 - Present
AI For All LLC (AI Owl)   *Columbus, OH, USA*

- Building an AI-powered investigation platform from scratch that processes multimedia content through transcription and media conversion, enabling chatbot-driven Q&A. Utilized AWS services like Cognito, S3, DynamoDB, and SageMaker. Deployed the application on AWS GovCloud using EC2, ensuring CJIS compliance.
- Developing a web game with 9 interactive modules using Unity(WebGL), integrated with Angular and .NET framework. Added Google SSO, OAuth 2.0, and Firebase phone authentication for secure access. Deployed modules on AWS S3 with CloudFront for static hosting. The modules are now being utilized as part of a single-credit high school course.

Graduate Desk Assistant   Jan 2024 - Present
University of Cincinnati   *Cincinnati, OH, USA*

Digital Specialist Engineer   Aug 2021 - July 2023
Infosys Limited   *Hyderabad, TS, India*

- Developed full-stack web applications using ASP.NET Core, C#, Angular, JavaScript, and SQL Server, contributing to 8 major and 2 minor releases for a leading Canadian Insurance/Mortgage firm.
- Applied Factory Design Pattern to create modular, reusable components, enhancing maintainability and scalability across the application and configured CI/CD pipelines in Azure DevOps, utilizing Azure Pipelines and YAML
- Established NPS payment gateway in the application using technologies such as Stripe and RESTful APIs, allowing secure and efficient processing of multiple payment methods (cheque, wire, electronic), which elevated transaction speed and reduced payment errors by 25%.

Program Analyst   Mar 2021 – Aug 2021
Cognizant Technology Solutions   *Hyderabad, TS, India*

- Utilized SSIS, SSRS, and SSAS to optimize ETL workflows, reducing data processing time by 40%, crafted OLAP cubes for in-depth multidimensional analysis, while using Azure Data Factory for cloud-based ETL solutions.
- Designed interactive Power BI dashboards with custom KPIs using DAX, providing stakeholders with real-time insights and data-driven recommendations that improved decision-making speed by 30%.

Freelance Software Developer   Aug 2019 - Mar 2021
Mitraya Infologic Services   *Visakhapatnam, AP, India*

- Configured scalable RESTful APIs and microservices using Java, Spring Boot, and Hibernate, integrating with a PostgreSQL database, reducing response time by 40%.
- Incorporated Spring Security and OAuth 2.0 for authentication, Redis for distributed caching, and RabbitMQ for asynchronous messaging, while automating CI/CD pipelines with Jenkins and Docker.

PROJECTS

AI-Driven Virtual Assistant | *OpenCV, TensorFlow, NLP, Django, PostgreSQL, Docker*   Sept 2023 - Jan 2024

- Generated a precise Deep Learning model with an F1 score of 0.72, using TensorFlow and OpenCV for real-time object detection and generation of context-rich narratives.
- Implemented speech synthesis using LLMs (Hugging Face Transformers) and Google Text-to-Speech, enabling real-time narration of visual content which boosted user engagement by 25%.

TECHNICAL SKILLS

Languages: C Sharp, Python, Java, C, C++, SQL, TypeScript, JavaScript, ShellScript, MATLAB, HTML5, CSS
Databases: RDBMS(MySQL, PostgreSQL, Oracle Database, SQL Server), NoSQL(MongoDB, CouchDB, Redis)
Frameworks: Angular, Dot Net Core, React, Node.js, JUnit, Spring Boot, Django, Material-UI, FastAPI, Bootstrap
Server and Cloud Infrastructure: Jenkins, TFS, Nginx, Microsoft IIS, Docker, Apache Tomcat, Azure, AWS
Machine Learning Libraries: TensorFlow, PyTorch, scikit-learn, Keras, Pandas, Numpy, Matplotlib, Seaborn, SciPy
Version Control and Agile Tools: TFVC, Git, JIRA, Azure Devops