Giridhar Reddy Mekapotula

✉ giridharreddy02@gmail.com 📞 +1 409 757 0402 in linkedin.com/in/giridhar-reddy-46759b210

○ github.com/giridhar248

OBJECTIVE

A highly motivated Software Engineer with expertise in **C/C++, Java, JavaScript, and full-stack development**, passionate about **AI, cloud technologies, and emerging tech innovations**. Enthusiastic about **building scalable AI systems and exploring multi-agent LLM platforms** with hands-on experience in Python, LangChain, and OpenAI technologies.

PROFESSIONAL EXPERIENCE

R&D Software Development Engineer Intern   10/2022 – 07/2023
TejasNetworks   Bangalore, India
- Implemented OSPF Database Limit and Sham Links in C++, improving routing efficiency and reducing network congestion by 25%.
- **Developed CLI-based tools for network configuration and troubleshooting,** streamlining debugging workflows and enhancing system reliability.

FrontEnd Developer Intern   06/2022 – 08/2022
stalcon solutions   Hyderabad, India
- **Developed responsive UI pages** to enhance the user experience.
- **Utilized React.js and Tailwind CSS** to create dynamic, visually appealing interfaces and **integrated RESTful APIs** for efficient data fetching.
- **Conducted usability testing and optimized web performance,** reducing load times by **30%** and improving overall responsiveness.

EDUCATION

M.S. Computer Science   08/2023 – 08/2025
Lamar University   Beaumont, Tx

Bachelor's of Technology (Computer Science)   07/2020 – 06/2023
Lovely Professional University   Phagwara, india

TECHNICAL SKILLS

Languages: JavaScript, C/C++, Java Python, UNIX Shell Scripting.
Databases: SQL (Relational Database), Hive (HDFS), MongoDB, Cassandra (No SQL) .
Web Development: HTML5, CSS, Node.js, React.js, Rest APIs.
Data Engineering: Git, Docker, AWS Cloud (EC2, S3, RDS, ECR).

PERSONAL PROJECTS

AI-Agents-for-Medical-Diagnostics   01/2025 – 03/2025
- **Built multi-agent AI diagnostic system** with specialized GPT-4o agents (Cardiologist, Psychologist, Pulmonologist) for comprehensive medical case analysis
- **Developed intelligent synthesis module** combining multi-specialty AI insights to generate unified diagnostic summaries and identify top 3 potential health issues per patient
- **Technologies:** Python, GPT-4o, Generative AI, Prompt Engineering, Multithreaded Development

Event Finder App - TicketMasterApp   09/2024 – 11/2024
- **Developed Android event discovery app** using TicketMaster and Google Maps APIs to browse global events with location-based search, favorites, and social sharing features
- **Implemented MVVM architecture** with Navigation Graph, Room database, and Dagger dependency injection for scalable and maintainable code structure
Technologies: Android Studio, Java/Kotlin, TicketMaster API, Google Maps API, Room Database, Dagger, MVVM Architecture, Navigation Graph