Bhavani Shankar Mukka

shankarbhavani862@gmail.com +91 6302336156 Visakhapatnam LinkedIn Github
LeetCode

EDUCATION

B.Tech, Computer Science & Engineering 2024 – 2028
Anil Neerukonda Institute Of Technology & Sciences
Current CGPA : 9.0

SKILLS

- **Core CS** : DSA, OOP, Networking, System Designing
- **Languages**: Python, Java, C++, Golang
- **Backend & Distributed Systems**: FastAPI, REST APIs, gRPC, WebSockets, Microservices, net/ http (Golang)
- **DevOps / Tools**: Docker, Docker Compose, Git, GitHub Actions (CI/CD), Linux/Ubuntu, Postman.
- **Databases**: MySQL, PostgreSQL, MongoDb, Redis, Firebase
- **Cloud**: Microsoft Azure, AWS (fundamentals)
- **Web/Mobile Frontend (Basics)**: JavaScript, React.js, Android (Java/XML)

PROJECTS

All projects are actively maintained on GitHub, Visit my Github for other Amazing Ai Driven + Networking Projects.

Social Media Backend (40+ Github Stars)

- **Production-grade,** fully async social media backend with **60+ REST endpoints and real-time chat/notifications**, using FastAPI, WebSockets, Redis, PostgreSQL, JWT, Docker, and Azure deployment, **designed to handle 10000+ concurrent users**.
- Implemented **CI and CD pipeline with GitHub Actions, running 60+ pytest checks so every production release follows a tested path to Azure VM.**
- **Engineered secure authentication with JWT access plus refresh-token rotation**, IP and user-based rate limiting, **Redis caching across 11+ endpoints**, and robust validation/error handling for reliable production behavior.

Minicorn (30+ Github Stars)

- **A lightweight zero-dependency Python HTTP server with 2 interface standards** (WSGI and ASGI), enabling developers to run synchronous and asynchronous apps through one unified interface for faster development.
- Added **WebSocket support for bidirectional communication** and validated server stability under concurrent request loads, **while keeping the framework dependency count at 0 for simple adoption**.

Microservices

- Designed and implemented a **polyglot microservices architecture** with **Go and Python** services communicating via **gRPC**.
- **Containerized 5+ Services** using **Docker Compose** for reproducible local deployment and **service orchestration.**

ACHEIVMENTS

- Solved **250+ DSA problems** across major coding platforms **LeetCode, HackerRank** and consistently applied **problem-solving patterns to backend architecture** and optimization tasks.
- Developed and contributed to **multiple production-style backend systems on Github** as a second-year student, with emphasis on clean API design, modularity, and scalability.