





# Bhavani Shankar Mukka

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## PROJECTS

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### Social Media Backend (50+ Github Stars)

11/2025 – Present

- Production-grade backend with **60+** REST endpoints and real-time chat/notifications, using FastAPI, WebSockets, Redis, PostgreSQL, Celery, RabbitMQ, LGTM Stack, Docker Compose, and Azure deployment, designed to handle **1000+ concurrent users**.
- Implemented CI and CD pipeline with GitHub Actions, running **80+ pytest checks** so every production release follows a tested path to Azure VM.
- Decoupled Background Jobs with RabbitMQ and Celery, Decreasing API time on background jobs to **<100ms** from **2-5s**.
- Load-tested the API with k6 and identified real infrastructure bottlenecks on Azure and added clear Benchmarking for the Backend.
- Added production-grade observability using the LGTM Stack with Grafana dashboards for RPS, p95 latency, error rate, slow endpoints, complete logs, and traces.

### Minicorn

02/2026

- A lightweight zero-dependency Python HTTP server with 2 interface standards (WSGI and ASGI), enabling developers to run synchronous and asynchronous python apps through one single interface for faster development.
- Added WebSocket support for bidirectional communication.
- minicorn is standalone which means it comes with 0 extra dependencies.

### Microservices

03/2026

- 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.

## SKILLS

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- **Languages:** Python, C++, Golang
- **Backend & Distributed Systems:** FastAPI, REST APIs, gRPC, WebSockets, Microservices, net/ http (Golang), RabbitMQ
- **DevOps / Tools:** Docker Compose, Git, GitHub Actions (CI/CD), Linux Ubuntu, LGTM Stack
- **Databases:** PostgreSQL, MongoDB, Redis, Firebase
- **Cloud:** Microsoft Azure, AWS (fundamentals)
- **Testing :** pytests, k6 tests
- **Web/Mobile Frontend (Basics):** JavaScript, React.js, Android (Java/XML)

## EDUCATION

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**B.Tech at ANITS (CSE) - 8.7 CGPA**

2024 – 2028

**Class 12th at Sri Viswa (CBSE) - 84%**

2022 – 2024

**Class 10th at St.Francis (ICSE) - 84%**

2010 – 2022

## **ACHEIVMENTS**

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- Solved **300+** DSA problems across major coding platforms LeetCode, HackerRank and consistently applied problem-solving patterns to backend architecture and optimization tasks.
- Developed multiple backend systems on Github as a second-year student, with emphasis on clean API design, modularity, and scalability.