Bhavani Shankar Mukka

GitHub: Shankar-105 | LinkedIn | LeetCode | shankarbhavani862@gmail.com | +91 6302336156

Education

ANITS 2024 – 2028

B.Tech. in Computer Science and Engineering | CGPA: 8.7

Experience

MSME360 *SDE Intern* Jun 2026 – Aug 2026

- Reduced FastAPI gateway response latency from over 5 s to under 15 ms by offloading demand-forecasting and OCR jobs to Celery workers via RabbitMQ.
- Stored long-horizon prediction arrays as compressed JSON payloads in Supabase Object Storage, reducing PostgreSQL write volume by over 95%.
- Advised the full-stack team on frontend polling efficiency by introducing a Redis state-caching layer, to reduce redundant read queries on Postgres.

Projects

Social Media Backend GitHub

FastAPI, PostgreSQL, Redis, Celery/RabbitMQ, Docker, Azure, LGTM Stack, WebSockets, k6

- Deployed a Docker Compose backend with 60+ REST endpoints and real-time WebSocket chat and notifications on an Azure Standard_B2ats_v2 VM (1 GB RAM).
- Moved email delivery, real-time notifications and OTP cleanup tasks to Celery/RabbitMQ workers, reducing API response times by up to 90% (under 500 ms).
- Prevented race conditions with optimistic and pessimistic locking, atomic SQL counter updates, and Redis-based idempotency.
- Load-tested 12 core endpoints with 100+ virtual users, measuring 66.28 requests/s at 98% success rate and approximately 45 ms p95 latency on a 2-core, 1 GB VM with light database load.

Minicorn GitHub

Python, Sockets, asyncio, WSGI/ASGI, WebSockets

- Built a zero-dependency Python server supporting WSGI (PEP 3333) and ASGI applications, including Flask/Django and FastAPI (in development).
- Implemented RFC 6455-compliant WebSocket support in the ASGI event loop, including HTTP 101 connection upgrades and ping/pong keepalives.

Technical Skills

Languages: Python, C++, Java

Backend: FastAPI, REST APIs, WebSockets, gRPC, Microservices, Celery, RabbitMQ

Databases: PostgreSQL, Redis

Infrastructure: Docker Compose, Microsoft Azure, Supabase, Linux (Ubuntu), Git, GitHub Actions, LGTM Stack

Testing: pytest, k6

Additional Frameworks & Tech:: Node.js, Next.js, Golang, MongoDB, JavaScript

CS Core: Data Structures and Algorithms, High-Level System Design, Operating Systems, Computer Networks, DBMS

Achievements & Certifications

- Derive Insights from BigQuery Data – Google, July 2026.
- Reviewed 2+ pull requests across the ML and full-stack teams at MSME360, helping address architectural issues.
- Built and maintained public GitHub repositories with 700+ stars combined.
- LeetCode Knight with a rating of 1,700+ (top 10%).