Vardhaman Ayyagari

+91 9618122355, Hyderabad, TS, India
vardhaman.ay@gmail.com
github.com/Vardhu2706
linkedin.com/in/vardhaman-ay
varay.in

Software engineer transitioning into backend development, with a focus on scalable design and hands-on project building.

Skills

Languages: Python, GoLang, JavaScript, TypeScript, SQL

Technologies: FastAPI, Django, MySQL, PostgreSQL, MongoDB, React, Docker, Kubernetes, Kafka, RabbitMQ, Git, AWS, GCP.

Work Experience

AVRL.io, Software Engineer   Remote, **2021 - Present**

- Developed JavaScript-based automation scripts to control web actions inside a custom in-house browser product, using internal libraries and tools.
- Built a Python automation prototype to simplify maintenance and improve reliability of the existing JS-based tooling.
- Gained cross-functional experience across scripting, testing, infrastructure, and backend development, with increasing focus on scalable system design.

Personal Projects

API Key Vault, Python (GitHub)
- Built a full-stack API key vault using FastAPI, MongoDB, and React with JWT auth and TOTP-based 2FA for secure access.
- Developed encrypted key CRUD, sharing with access control, and a responsive frontend using React-Toolkit Query for seamless API integration and state management.

Distributed Task Queue, Python (GitHub)
- Designed a multi-component backend system using FastAPI, Celery, Redis, and Docker to process long-running jobs asynchronously. Tasks include background CSV generation, file downloads, and real-time status tracking.
- Deployed with Flower for live monitoring and a React frontend for interaction.

Async Notification Service, Python (GitHub)
- Built an asynchronous notification service using FastAPI, RabbitMQ, and Mailtrap, enabling email/SMS/push delivery via background workers.
- Implemented retries, dead-letter queue (DLQ), UUID-based logging, and a REST API to track notification history. Dockerized with docker-compose for local deployment.

Distributed File Storage, GoLang (GitHub)
- Built a distributed peer-to-peer file storage system in Go, using goroutines and channels for concurrent peer communication, message broadcasting, and file streaming over TCP.
- Implemented file replication across nodes via content-addressable storage and gob-encoded messaging, enabling decentralized file sharing without a central coordinator.

Certifications

GCP Certified Associate Cloud Engineer   2023   (Verify)

AWS Certified Developer - Associate   Previously certified

Education

Geethanjali College of Engineering & Technology   **Hyderabad, TS, India**

Bachelor of Computer Science & Engineering   2020