

Vardhaman Ayyagari

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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

- Wrote JavaScript automation scripts to simulate user workflows inside a custom in-house browser, using internal libraries for DOM control and task orchestration.
- Created internal helper utilities to improve reusability, reduce duplication, and streamline script development across teams.
- Prototyped a Python-based automation suite using Playwright, enabling faster and more maintainable alternatives to legacy scripts; demoed internally to explore adoption potential.
- Gained exposure to Docker and GCP while supporting infra-related tasks; gradually shifted focus toward backend engineering through self-led projects and exploration.

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