

MOHAMED SHIYAS B

DevOps + Backend Engineer

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PROFESSIONAL SUMMARY

Software Developer with 1.5 years of experience specializing in backend development and transitioning into DevOps. Hands-on expertise in Django REST Framework, FastAPI, Flask, GoLang, and NodeJS applications. Experienced with monitoring tools (Prometheus, Grafana), message brokers (RabbitMQ), and cloud services (AWS EC2, S3, CloudWatch, VPS). Strong understanding of Linux, networking fundamentals, CI/CD, and Git. Seeking to leverage development and infrastructure experience to grow as a DevOps Engineer.

SKILLS

Programming & Frameworks: Python, Go, JavaScript, Django, Flask, FastAPI, Express.js, React.js, Next.js

DevOps & Cloud: Docker, Kubernetes, Jenkins, CI/CD, AWS (EC2, S3, IAM, CloudWatch, ECS, VPS)

Databases & Tools: PostgreSQL, MySQL, MongoDB, SQLite, Git, RabbitMQ, gRPC, Linux, Monitoring

EXPERIENCE

Associate Software Developer — DevOps — Cloud — Backend *Jul 2024 – Present*
Qusol Innovation Private Limited (Product-based)

- Built backend services using Python (DRF, FastAPI, Flask), microservices with Node.js and Go.
- Implemented gRPC and RabbitMQ for reliable inter-service communication.
- Worked with PostgreSQL, MongoDB, and Redis for storage and caching.
- Managed AWS services including S3, IAM, CloudWatch; configured CI/CD pipelines in Azure DevOps.
- Containerized multiple applications using Docker; improved deployment consistency.
- Configured Prometheus and Grafana for monitoring KPIs and service performance.
- Actively contributed to sprint planning, code reviews, and production feature delivery.

PROJECTS

Access Management System — Backend Core Service

Python, DRF, Celery, Redis, AWS S3, CloudWatch, JWT, PostgreSQL

- Built core backend modules: Users, Profiles, Organisations, Access Pass, Reports.
- Implemented JWT-based authentication, permissions, and admin-driven org setup.
- Designed Redis-cached quota management to reduce heavy DB queries.
- Integrated AWS S3 for media storage; CloudWatch + Discord for error monitoring.

- Added CSV bulk onboarding, app registration, and email-based self-registration.
- Synced access-pass data to company devices in real time.

Full-Stack Microservices Platform — Django + gRPC + Flask

Python, DRF, gRPC, Flask, Docker, Pytest, Swagger, GitHub Actions

- Developed Python microservices using Django REST Framework, gRPC, and Flask.
- Created Product CRUD with Flask consuming gRPC service and exposing REST APIs.
- Added Swagger docs, full Dockerization, and Pytest test coverage.
- Built CI pipeline using GitHub Actions for automated tests.

Message-Driven Microservices — FastAPI + RabbitMQ

FastAPI, RabbitMQ, Docker, Pydantic, Pytest, GitHub Actions

- Built async producer-consumer microservices using FastAPI and RabbitMQ.
- Added reliable message publishing/consuming and centralized config via Pydantic.
- Designed Docker Compose environment and integrated structured logging.
- Implemented CI workflow using GitHub Actions + RabbitMQ service.

Local Cloud Backend Platform — Django + DevOps

Django REST Framework, Celery, Docker, LocalStack, PostgreSQL, Redis, RabbitMQ

- Built a production-ready backend simulating AWS services locally using LocalStack (S3, SES, CloudWatch).
- Implemented JWT authentication, modular Django apps, and clean service-based architecture.
- Integrated Celery + RabbitMQ for async tasks (file uploads, emails, background processing).
- Used Redis for caching and Celery result backend to improve performance.
- Dockerized the full stack and added Pytest test suite with GitHub Actions CI.

EDUCATION

Diploma in Electronics & Communication

Govt Polytechnic, Palakkad, Kerala — 2023

Higher Secondary (12th Standard)

PMG Higher Secondary School, Palakkad, Kerala — 2020