

DILIPSAI V

PROFESSIONAL EXPERIENCE

Results-driven backend engineer (7+ years) building scalable, reliable systems. Strong in system design, performance tuning, and leading delivery across cross-functional teams. Known for reducing time-to-market, hardening security, and turning complex requirements into resilient, maintainable services that meet business goals.

Aumovio SE (Previously Continental Automotive), Bengaluru, India
Technical Specialist (Technical Lead)

Aug 2023 – Present

- Lead a backend team with structured reviews and mentorship; reduce sprint spillovers and cut new-hire ramp-up time by **50%** via standardized API docs and architecture blueprints.
- Build a high-performance OAuth 2.0 Auth platform securing **50+** internal/external APIs; implement Authorization Code, Client Credentials, Password, and Refresh Token flows, JWT rotation, and dynamic RBAC, reducing unauthorized access incidents by **95%**.
- Operate microservices handling **1M+** daily requests at **99.99%** uptime; design PostgreSQL schemas with indexing and partitioning for hot paths.
- Introduce RabbitMQ eventing to offload peak traffic (**~35%** API load) and deliver a notification service processing **500K+** messages/day with sub-second latency.
- Automate delivery with Docker, Kubernetes, and Helm for zero-downtime rollouts; cut manual ops by **80%**.
- Build multi-account AWS infrastructure: API Gateway + DNS for dev/prod, least-privilege IAM, Cognito for auth, and gRPC for inter-service communication.
- Scale compute with ASGs for parallel jobs; design DynamoDB schemas and migrate datasets from MySQL for new workloads.
- Standardize IaC by migrating CDK to Terraform modules; wire ECR + GitHub Actions for automated build/tag/deploy to Lambda/EC2.
- Drive engineering hygiene: **300+** reviews, **~90%** unit coverage, **~40%** fewer production bugs.

Engineering Practices

- Performed 300+ reviews; instituted standards and security gates, achieving **~90%** unit coverage and **~40%** fewer prod bugs.
- Built CI/CD guardrails (lint, tests, scans, canary/blue-green) to speed safe releases and reduce rollbacks.

Maveric Systems, Bengaluru, India
SDE-1 (Backend Python Developer) Client : Zeta Suite(Payzapp)

Jan 2022 – Jul 2023

- **Release Dashboard:** Shipped a React + Django dashboard for real-time stability and release forecasting; DRF APIs optimized with pagination/caching; ETL in Airflow ingesting Crashlytics (BigQuery), Report Portal, and Jira; dual PostgreSQL (Airflow + Results); Docker/Helm deployments; local Docker Compose to isolate prod.
- **Performance Engineering:** Built a Python testing toolkit and pre-setup scripts eliminating multithreaded race conditions; streamed pytest results to a TaaS dashboard.
- Delivered a FastAPI + Redis service for on-demand test prerequisites; deployed on Docker/Kubernetes/Helm.
- Scaled data generation to **millions** of records with multithreading + AsyncIO; parallel downloads across **75** containers.
- Customized Locust (HTML report notifications) and deployed it as an internal service; added a secure logging wrapper (Vault-controlled levels, PII filtering).
- Validated six critical payment flows; identified bottlenecks across **23** clusters and **100+** microservices using Kibana, Grafana, and Jaeger.

Wipro Technologies, Bengaluru, India

Nov 2018 – Jan 2022

Senior Software Engineer (Full Stack Python Developer)

- Built a real-time monitoring dashboard (React, Django, PostgreSQL) to track missing files and SLA/SLO compliance, improving incident time-to-detect.
- Automated build/release with Docker and Jenkins; reduced feature lead time by **30%**.
- Served as Scrum Master for distributed teams; introduced pairing, architecture reviews, and quality gates, reducing technical debt by **32%**.
- Delivered internal tools and automated reports (CSV/PDF/JSON) with MySQL data pipelines for better process visibility.

SKILLS

Backend & System Design: Python, FastAPI, Django, RESTful API Design, Microservices Architecture, Event-Driven Architecture (RabbitMQ), gRPC, System Design, Async Programming (AsyncIO, Multithreading)

Auth & Security: OAuth 2.0, JWT, Role-Based Access Control (RBAC), IAM (least-privilege), API Security
Data & Storage: PostgreSQL, MySQL, DynamoDB, Redis, ETL Pipelines (Airflow)

Cloud & DevOps: AWS (Lambda, EC2, S3, API Gateway, Cognito, ECR), Docker, Kubernetes (Helm charts), Terraform (modules), CI/CD (GitHub Actions, Jenkins)

Observability: Grafana, Kibana, Jaeger

EDUCATION

Nitte Meenakshi Institute of Technology, Bengaluru, India
B.E in Electronics and Communications

July 2018