

SWASTIK MUND

Backend Engineer | DevOps — Node.js — FastAPI — AWS — System Design — Data Modeling — Cloud

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PROFESSIONAL SUMMARY

Backend Engineer with 1.5+ years of experience building scalable APIs and data-intensive systems using Node.js, FastAPI, Flask, and AWS. Strong in schema design, system optimization, microservices, cloud-native monitoring, and multi-cloud infrastructure. Based in Bengaluru, India.

EXPERIENCE

Backend Developer | DevOps

Nov 2024 – Present

Seekright AI

Bengaluru, KA

- Designed and developed Node.js + Express backend with 7 REST APIs for video processing: batch uploads (5GB files, 20+ concurrent), WebSocket real-time status updates, and Python script integration. Introduced file watchers and background job queues for large-scale batch operations.
- Migrated critical Python APIs (2000+ line monolithic files) to Node.js microservices, improving response times 4-5x through better I/O handling and modular architecture. Refactored business logic into separate service layers for maintainability.
- Instrumented end-to-end production monitoring using Prometheus and Grafana across API servers and client processing systems. Created custom dashboards tracking API response times, database query performance (critical for tables with millions of records), request failure rates, and P95/P99 latency metrics.
- Executed complete infrastructure migration: on-premise → AWS (EC2, RDS, S3) → Oracle Cloud (OCI). Configured compute instances, networking components (VCN, subnets, security lists), migrated databases, and adapted deployment pipelines. Set up Linux servers from scratch with Nginx, Docker (managed via Portainer), and Redis for session caching.
- Optimized AWS S3 storage costs by implementing data retention strategy: configured dashboard to display only 3-month rolling window of anomaly images and processing videos, archiving 3 years of historical POC and production data while maintaining automated backup workflows.
- Streamlined CI/CD pipelines and Docker multi-stage builds, reducing image size by 60% using Alpine base images and separating build dependencies from runtime layers.

FileMaker Developer

Sept 2024 – Oct 2024

Mindfire Solutions

Bhubaneswar, Odisha

- Established workflow automation systems using Claris FileMaker and JavaScript, improving internal business process efficiency.

Backend Developer Intern

Jan 2024 – June 2024

Neophyte Ambient Intelligence

Remote

- Developed REST APIs using Node.js, Express, MongoDB for computer vision platforms. Designed NoSQL schemas and optimized aggregation pipelines.

TECHNICAL SKILLS

Languages: Python, JavaScript (Node.js, Express.js), Go, SQL, C++

Frameworks: FastAPI, Flask, Django, React.js

Databases: PostgreSQL, MySQL (Triggers, Stored Procedures, Event Schedulers), MongoDB, Redis

Cloud & DevOps: AWS (EC2, S3, RDS), Oracle Cloud (VCN, Subnets, NAT/IG), Docker, Portainer, Prometheus, Grafana, CI/CD, Linux, Nginx

Concepts: System Design, Microservices, REST APIs, Data Modeling, RBAC, WebSocket Communication, Performance Optimization

Tools: Git, Postman, Cursor, VS Code, SSH

PROJECTS

Smart LangMail | Node.js, LangChain, OpenAI, Pinecone, IMAP

2025

- Engineered email job offer aggregator using Node.js, LangChain, and OpenAI embeddings. Implemented IMAP integration to parse 1000+ emails, extract structured job data (title, salary, company), and store vector embeddings in Pinecone for semantic search queries like "remote React jobs in Bangalore".

Centralized Labour Management System | Node.js, React.js, MongoDB

2025

- Architected full-stack workforce management system with Node.js backend, React frontend, and MongoDB. Executed 4-tier RBAC (Super Admin, Admin, Contractor, Worker) with role-based authentication and authorization.
- Led development of modules for contractor-worker relationship tracking, attendance management, onboarding/offboarding workflows, and hierarchical data visibility across organizational levels.

EDUCATION

IIIT Bhubaneswar

Bhubaneswar, India

Bachelor of Technology in Electronics and Telecommunications – CGPA: 8.37

2020 – 2024