ADITYA DHANRAJ

Backend & API Engineer · .NET · Node.js · Microservices · DevSecOps

Bangalore, Karnataka | 6202908846 | opsingh861@gmail.com | linkedin.com/in/opsingh861 | github.com/opsingh861

PROFESSIONAL SUMMARY

Backend and API Engineer with 1+ year of full-time experience at Infineon Technologies, owning an internal API Platform used for Functional, Performance, and Security testing of microservices across 10+ engineering teams. Specialises in REST/GraphQL API automation, DevSecOps pipeline design, AI agent tooling, and high-performance backend systems. Delivered a **96% API latency reduction** (150 ms → 5 ms) in a production-grade project. Proficient in .NET, Node.js, Python, TypeScript, Docker, Kubernetes, OpenShift, Jenkins, and ArgoCD.

PROFESSIONAL EXPERIENCE

Software Development Engineer — API Platform

Infineon Technologies · Bangalore, Karnataka · Jun 2025 – Present

- Own development of the internal API Platform, a microservice test orchestration tool running Functional, Performance, and Security suites across **10+ engineering teams**, directly gating every software release.
- Developed an internal registry for reusable AI agents and developer tools, enabling teams to rapidly integrate automation capabilities and accelerating internal platform experimentation.
- Define API standards, test coverage requirements, and automated quality gates cross-functionally for all new microservice releases.

Software Development Intern — API & DevSecOps

Infineon Technologies · Bangalore, Karnataka · Jul 2024 – May 2025

- Built a Python automation tool that auto-generates REST and GraphQL endpoints with OData support from a database connection string, eliminating manual API scaffolding and accelerating service onboarding for multiple teams.
- Standardised the company's API landscape organisation-wide, measurably improving discoverability, documentation quality, and cross-team developer experience for hundreds of engineers.
- Architected a DevSecOps delivery workflow with security checks, audit trails, and automated CI/CD gates adopted as the team's standard release process; resolved critical pipeline failures during UAT cycles.

PROJECTS

BlinkLink — High-Performance URL Shortening Platform

Node.js · React · MongoDB · Redis · Docker · Jenkins · AWS · NGINX · Apr – May 2024 · github.com/opsingh861/blinklink

- Engineered a production-grade URL shortening service with QR code generation and real-time click analytics on a horizontally scalable Node.js backend.
- **Reduced API latency by 96%** (150 ms → 5 ms) via Redis caching — tripling throughput and cutting MongoDB read load by 70%.
- End-to-end solo deployment: Dockerised, hosted on AWS with NGINX reverse proxy, automated via Jenkins CI/CD pipeline.

Lucy — AI Voice Assistant

Python · OpenAI API · May – Jun 2023 · github.com/opsingh861/lucy

- Voice-activated AI assistant with wake-word detection, OpenAI-powered NLU, creative content generation, and OS-level desktop automation for hands-free control.

TECHNICAL SKILLS

Core Backend: .NET, Node.js, Python (FastAPI), TypeScript, REST APIs, GraphQL, Microservices

DevOps / Platform: Docker, Kubernetes, OpenShift, Jenkins, ArgoCD, GitLab CI, Tekton, DevSecOps, CI/CD pipeline design

Databases: PostgreSQL, MySQL, MSSQL, MongoDB, Redis

AI / Agent Systems: MCP, ADK, RAG, N8N, Copilot, OpenAI API

Familiar: Java, C++, Rust, React.js, Next.js, Vue.js

ACHIEVEMENTS

- **Finalist — Smart India Hackathon (SIH) 2023** — competing against thousands of teams nationwide
- Solved **650+** algorithmic problems across LeetCode and Coding Ninjas

EDUCATION

B.Tech Computer Science & Engineering — CGPA: 8.37/10 · *Lovely Professional University, Jalandhar · 2021 – 2025*