

Abhishek Vyas

Backend / Software Engineer

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SUMMARY

Backend-focused Software Engineer with 4+ years of experience designing and maintaining scalable services, RESTful APIs, and microservices. Strong in Python (FastAPI) and Java (Spring Boot), with hands-on experience in Docker, relational databases (MySQL, PostgreSQL), message brokers (Apache Kafka), and event-driven distributed systems. Holder of a Master of Applied Science in Computer Engineering (Canada). I write clean, testable code, optimize performance, and ship features with cross-functional teams.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL

Backend: FastAPI, Spring Boot, Node.js, Express, RESTful APIs, Microservices, Distributed Systems

Messaging & Data: Apache Kafka, MySQL, PostgreSQL, MongoDB, Redis, SQLAlchemy, Prisma, JPA

Cloud & DevOps: Docker, Azure (Functions, DevOps), AWS (EC2, S3, Lambda), CI/CD, Git/GitHub, Infrastructure as Code

Observability & Practices: Prometheus/Grafana-style monitoring, ELK/Kibana, Dynatrace, unit testing, performance optimization, Agile, code reviews

EXPERIENCE

Full Stack Developer, Traveltical Inc.

Sep 2025 – Present

Enterprise SaaS for regulated financial services | Toronto, ON, Canada

- Build backend functionality for a multi-tenant SaaS platform using Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic, Redis, and REST APIs, delivering audit and control-testing product surfaces end-to-end.
- Implement production security patterns including OAuth 2.0/OIDC, Microsoft Entra ID, RBAC, object-level authorization, tenant isolation, and audit logging, in a mission-critical financial-services environment.
- Ship features with an AI-assisted engineering workflow (Claude Code, Codex) for implementation, test generation, and independent code review ahead of human validation.

Full Stack Developer Intern, Ehlo

May 2025 – Aug 2025

Remote, Canada | Node.js / MySQL

- Designed and implemented REST APIs using Node.js, Express, TypeScript, TypeORM, and MySQL, structured in N-tier architecture and Swagger/OpenAPI documentation.
- Added production-oriented observability (structured logging with Winston, request tracing, health checks) and security controls including Helmet/CSP, CORS, rate limiting, and request validation.

Software Engineer II, Apexon (formerly Infostretch)

Aug 2021 – Aug 2023

Promoted to Engineer II in Jan 2023 | Ahmedabad, India

- Improved cross-system throughput by ~40% by designing an asynchronous patient-data synchronization workflow with Java, Spring Boot, and Apache Kafka across high-traffic healthcare systems.
- Built and optimized REST APIs and Spring Boot microservices (MySQL, MongoDB, JPA) and developed Azure Functions for asynchronous, serverless processing; integrated external platforms including Magento and Retail Unity.
- Resolved 50+ L3 production incidents using Dynatrace and Kibana; mentored junior developers, led code reviews, and participated in architecture and design reviews with Solution Architects.

Site Reliability Engineer, Crest Data Systems

Jul 2020 – Aug 2021

Crest Data Systems | Ahmedabad, India

- Automated CI/CD pipelines and deployment workflows in Python for distributed Splunk environments, reducing manual overhead by 60% and sustaining 99.9%+ uptime through monitoring and incident response.

PROJECTS

Zero-Hallucination RAG Service (Python / FastAPI)

2026

- Built a Python/FastAPI microservice combining hybrid retrieval (BM25 + pgvector) and cross-encoder reranking over a 55,000-chunk corpus, enforcing citation-coverage gates that achieved a 0% hallucination rate and 100% refusal accuracy on adversarial sets, with a CI-gated eval harness and token/cost tracing.

OSFI Guardian: Multi-Source Data Pipeline & REST API

2026

- Developed a Python service that ingests, cleans, and structures large volumes of content from multiple sources with change detection, exposed through a REST API and hardened with Pydantic validation and 134 automated tests.

EDUCATION & CERTIFICATIONS

Master of Applied Science, Computer Engineering, Memorial University of Newfoundland

Apr 2025

CGPA 3.62/4.0 | St. John's, NL, Canada | Coursework: System Design, SOLID Principles | Azure Developer Associate (AZ-204)