

Aditya Patil

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SUMMARY

Software Engineer with 2 years of experience building scalable microservices and cloud-native applications using Go, Python, and Kubernetes. Skilled in designing RESTful APIs and developing interactive dashboards with React and Grafana to enhance system observability. Contributed to reducing integration cycles by 35% and improving resource utilization across AWS and Azure environments.

PROFESSIONAL EXPERIENCE

Cohesity, Inc.

Software Engineering Intern

Santa Clara, CA · May 2025 - Dec 2025

- Architected and engineered GoLang-based orchestration microservices to manage distributed virtual lab environments, provisioning resources across AWS and Azure for Cohesity Data Protect infrastructure, which enabled faster lab setup and improved overall resource utilization
- Developed scalable lab provisioning platforms using modern software architecture principles with Docker and Kubernetes, led the infrastructure upgrade and performed data schema validation for the AIO Lab Migration from v7.1.2 to v7.2.2, which reduced migration time and minimized downtime
- Designed and implemented interactive monitoring dashboards (e.g., Grafana fed by Prometheus) for real-time tracking of system health and replication metrics across hybrid cloud deployments, resulting in a 25% improvement in system observability and defect detection.
- Contributed clean, testable code following software engineering fundamentals to the core lab infrastructure APIs using Python and FastAPI, ensuring reliability, facilitating new product quality assurance scenarios, and accelerating the overall Software Development Lifecycle (SDLC)

Veritas Technologies LLC

Associate Software Engineer

Pune, MH · Jul 2023 - Aug 2024

- Engineered and deployed a proprietary System Integration Testing (SIT) platform using Python and SQL with a service-oriented design to automate validation across large-scale distributed applications, cutting integration cycles by 35%
- Optimized enterprise job scheduling with Broadcom's Appworx and core backend workflows on Linux using Python scripts, achieving 99.9% system reliability and uptime
- Built internal monitoring and alerting dashboards (Grafana / Prometheus) for distributed services and database clusters (Oracle / MS SQL Server), which reduced the mean time-to-detect (MTTD) issues by 30%.
- Developed APIs for data and workflow management using Oracle Database and MS SQL Server queries to support Oracle EBS and custom application logic, improving data accessibility and reducing processing errors

IT Intern

Pune, MH · Jan 2023 - Jun 2023

- Engineered and deployed the full-stack Database Central Repository (DCR) using Helm, Express, and PostgreSQL, leveraging modern web application frameworks and integrating REST/gRPC APIs and Scikit-Learn models; the system delivered production-health data analysis and cut data-lookup latency by 50% for Oracle and MS SQL servers

Eluminous Technologies

Software Developer Intern

Nashik, MH · Feb 2022 - May 2022

- Architected and developed Chefpin, a modern full-stack application leveraging the MERN stack (MongoDB, Express, React, Node.js) and modern software architecture principles, engineering scalable RESTful APIs to support 10K+ monthly active users and optimize performance for 25% faster page loads

EDUCATION

Arizona State University | Master of Science, Software Engineering (Data Science Spec.)

Aug 2024 - Present

Savitribai Phule Pune University | Bachelor of Engineering, Computer Engineering

Aug 2019 - May 2023

PROJECTS

Aura - Autonomous Issue Triage Agent

Sep 2025 - Oct 2025

- Engineered the full-stack Aura Triage Agent, an Agentic AI solution using Python/PyTorch to autonomously classify and route support tickets, achieving an initial classification accuracy of over 90%.
- Developed a robust data pipeline and API endpoints with FastAPI and PostgreSQL, building a React/Node.js monitoring dashboard to visualize agent performance and support data-driven decision-making.

GridAI - Distributed Microservice for Real-Time AI Model Serving

Aug 2025 - Sep 2025

- Architected a high-performance Distributed Microservice for real-time AI model inference (PyTorch), handling low-latency predictions via FastAPI and a React/Next.js client interface.
- Deployed the service using Kubernetes (K8s) and Docker, implementing Prometheus/Grafana for SRE-focused monitoring and establishing scalability with the Horizontal Pod Autoscaler (HPA) and an asynchronous task queue (Celery/Redis).

Travel Path – Intelligent Itinerary Planner

Nov 2024 - Dec 2024

- Engineered a full-stack Intelligent Itinerary Planner (React, FastAPI, PostgreSQL) using semantic knowledge graphs to solve itinerary planning, with results published as a research paper in IEEE COMPSAC 2025.
- Built a data-driven recommendation engine using SPARQL queries on GraphDB, enabling dynamic, real-time suggestions and increasing itinerary relevance by analyzing user behavior patterns.

SKILLS

- Programming Languages:** Go, Python, Java, JavaScript, SQL, C/C++
- Frameworks & DevOps:** Kubernetes, Docker, Terraform, Helm, FastAPI, React, Node.js, Next.js, Express, Celery, Redis, WebApplication Frameworks
- Databases & Systems:** PostgreSQL, Oracle Database, MS SQL Server, MongoDB, Elasticsearch, Kafka, Spark, MinIO
- Cloud & Infrastructure:** AWS, Azure, GCP Cloud Storage, Linux
- Monitoring & SRE:** Prometheus, Grafana, CloudWatch, JMeter, Unit/Integration Testing, CI/CD

- **AI/ML & Software Engineering Concepts:** PyTorch, TensorFlow, Scikit-Learn, Agentic AI, MLOps, OOP, REST/gRPC APIs, Concurrency, Scalability, Software Engineering Fundamentals, Modern Software Architecture, Services