SHIVRAJ PATIL



Sr. Software Engineer @Novonordisk Bengaluru

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PROFESSIONAL SUMMARY

Software Engineer with 7+ years of progressive experience architecting scalable backend systems, cloud-native solutions, and high-performance applications. Proven track record in Python ecosystem, microservices architecture, cloud engineering, and DevOps automation. Successfully delivered applications serving thousands of users while working with cross-functional teams and mentoring junior developers.

Core Expertise: Full-stack development, System design, API architecture, Database optimization, Cloud infrastructure, CI/CD pipelines, Team leadership



SKILLS HIGHLIGHTS

Programming & Frameworks

Python: Flask, FastAPI, SQLAlchemy, Pandas
 Backend Technologies: RESTful APIs, Microservices Architecture
 Database Systems: PostgreSQL, Oracle, MySQL, Redis, SQLite

Cloud & DevOps

AWS Cloud Services: EC2, RDS, Lambda, CloudFormation, API Gateway
 Containerization: Docker, Kubernetes, Container Orchestration

• CI/CD Tools: Azure DevOps, AWS CodePipeline, Automated Deployment Pipelines

Architecture & Design

System Architecture: Microservices, Event-Driven Architecture, Distributed Systems
 API Design: REST, OpenAPI/Swagger, API Security & Rate Limiting

Database Design: Schema optimization, Query performance tuning, Data modeling



Senior Software Engineer Present

Novo Nordisk - Bengaluru

Project - NN Planner: Enterprise Workforce Management Platform

Impact: worked on restructuring and delivered a cloud-native digital planning system serving 3,000+ users across QC laboratories, QA departments, and production support teams globally.

Key Achievements:

- Architected scalable backend infrastructure using Python/Flask and AWS services.
- Developed RESTful APIs for workforce planning, resource optimization, and real-time analytics.
- Implemented microservices architecture
- code reviews and established best practices, improving code quality metrics.

Technologies: Python, Flask, AWS, PostgreSQL

Software Engineer
Accenture - Bengaluru
Project- - Big Data Analytics Platform - US Steel Corporation

Mar-21 to Jan-23

Project Desc:

The primary business of US Steel is the production and sale of steel sheet products such as hot roll, cold roll and galvanized sheet. Working on different data analytics applications which help them have better insights and improve steel production. Handling various projects (Steel price predictions, Alloy consumptions, Scrap Management) which led to saving millions a year by switching to these platform/applications.

Responsibilities-

- Developed microservices APIs for steel price prediction, alloy consumption optimization, and scrap management
- Architected real-time analytics dashboard using Vue.js frontend and Python backend services, plotly dashboards.
- Optimized database queries reducing processing time for critical business reports

Technologies: Python, FastAPI, Kedro, PySpark, Vue.js, Plotly.

Software Engineer LTI - Pune Projects: Oct18 to Mar-21

GBI DataLab - ML Platform for Apple Inc.

Built a comprehensive machine learning platform enabling data scientists to deploy and manage ML models at scale.

- Designed and implemented backend services for Jupyter notebook management and model deployment.
- Integrated version control system using GitHub API, enabling seamless code collaboration.
- Built containerized deployment pipeline using Docker and Kubernetes for model serving.
- Developed automated testing framework achieving 90%+ code coverage using pytest.

MOSAIC AlOps Platform

IT operational center platform for ticket issue resolution.

- Migrated legacy .NET application to Python-based microservices architecture.
- Developed automated ticket routing system using Django framework.
- Built RESTful APIs for IT operations management and monitoring

Technologies: Python, Flask, Django, Docker, Kubernetes, SQLAlchemy, GitHub API, GitLab, PostgreSQL.



Hackathon Participant:

- Novo Nordisk InsightHACK 2023 (Sales Intelligence Platform)
- LTI MosaicHacks 2020: Developed cloud marketplace solution with multiple services
- Tech Conference: PyCon India 2023, 2024, 2025



PROFESSIONAL COURSES & CERTIFICATIONS

Udemy Certified: Python, Docker, Kubernetes, Machine Learning



EDUCATION

 Bachelor of Engineering, Electronics & communication KLS VDIT, VTU 2013 - 2017



PERSONAL DETAILS

Date of Birth 10th June, 1994

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Portfolio https://shivrajpatil12.github.io