Pratik Bhor

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Software Engineer with **3+ years of experience** specializing in **Java Enterprise (Spring Boot)** and **Python (FastAPI/Django)** ecosystems. Expert in **GenAI (LLM/RAG)** and **Cloud Architecture (AWS)**, bridging the gap between legacy transactional systems and modern AI automation. Proven track record in designing secure RESTful APIs and migrating monolithic data systems to scalable microservices.

Skills

- **Core Languages:** Java (Core, Java 17), Python, SQL, JavaScript.

- **Backend Frameworks:** Spring Boot, Spring Data JPA, Hibernate, Django REST Framework (DRF), FastAPI.
- **AI & Data Engineering:** Generative AI, RAG Pipelines, LLM Integration (OpenAI), Pandas, Power BI.
- **Cloud & DevOps:** AWS (EC2, S3, Media Services), Docker, Kubernetes, Jenkins, Nginx, CI/CD, Git.
- **Databases:** MySQL, PostgreSQL, Oracle, SQL Server

Experience

JAN 2024 – PRESENT

Freelance Software & Automation Consultant , Remote, Pune

- **AI & LLM Implementation:** Designed Agentic AI workflows to automate business processes, integrating OpenAI LLMs with SQL databases to autonomously handle customer inquiries. Implemented RAG (Retrieval-Augmented Generation) pipelines to ground AI responses in proprietary product data, significantly reducing model hallucinations.
- **Architecture & Migration:** Architected a hybrid backend system using Java Spring Boot for core transaction logic and Python for historical data analysis. Migrated legacy monolithic scripts into a containerized Microservices architecture using Docker on AWS, improving system uptime by 40%.
- **Security & Optimization:** Designed secure REST APIs with Spring Security (JWT) and RBAC to govern data flow. Implemented Hibernate/JPA for efficient object-relational mapping, reducing query latency for high-volume reporting modules.
- **DevOps Infrastructure:** Architected deployment infrastructure using Docker and Nginx, establishing CI/CD pipelines to ensure reliable serving of automation services.

JULY 2021 – AUGUST 2022

ICQA Associate / Data Integrity Analyst /Frasers Group, Nottingham, UK

- **Data Integrity:** Conducted rigorous inventory audits and quality control analysis to ensure 99.9% system data accuracy.

- **Process Optimization:** Analyzed inventory discrepancies and collaborated with operations teams to resolve root causes of data conflicts.
- *Note: Maintained active software engineering skills during this tenure by developing a full-stack Transaction Ledger System (see Projects)*

JULY 2021 – AUGUST 2022

Software Developer/ServiceNet Technologies, Nagpur, India

- **Full Stack Development:** Engineered a 'Product Scheme Management' engine using Python (Django) and React to automate dealer order workflows and status transitions.
- **Cloud Integration:** Integrated CCTV footage into a monitoring platform using Django and **AWS Media Services (S3, Boto3)** for efficient cloud-based storage and playback.
- **API Design:** Designed high-performance APIs to integrate the ordering system with external inventory databases, ensuring real-time data consistency.
- **Database Optimization:** Optimized MySQL database schema designs to handle complex relationship mappings between dealers, products, and schemes.

JAN 2020 – JUNE 2021

Data Analyst /Enexion Energy, Pune, India

- **Automation:** Automated MSCONS/UDP meter data file analysis using Python and SQL, reducing manual processing time by **90%**.
- **Analytics:** Managed SQL Server databases to support high-volume energy consumption data and developed Power BI dashboards to visualize predictive analysis for key stakeholders.

Education

DEC 2023

Master's in Computer Science/Nottingham Trent University, Nottingham, United Kingdom

MAY 2019

Bachelor of Computer Engineering/Savitribai Phule Pune University, Pune, India

Projects

JUNE 2024

Transaction Ledger System (Java Spring Boot & MySQL)

- Tech Stack: Java 17, Spring Boot, Spring Data JPA, MySQL, JUnit.
- Built a secure banking backend simulation handling atomic fund transfers and user account management.
- Implemented **Optimistic Locking** to handle high-concurrency race conditions and prevent double-spending anomalies.
- Designed **RESTful endpoints** documented with Swagger, securing sensitive transaction routes with Role-Based Access Control (RBAC).

JUNE 2023

Stocks Trading Platform

- Developed a stock trading web app using **Django REST Framework** and **Docker**, hosted on **AWS EC2**.

- Features included real-time pricing, currency conversion, and share transactions with a frontend hosted on GitHub Pages.

MAY 2023
Obesity Prediction using Machine Learning

- Developed ML models (Random Forest, MLP) to predict obesity levels with **92% accuracy**, leveraging data preprocessing and feature engineering.