Pratik Raut

Full-Stack, Backend & AI Engineer

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🔗 Portfolio

🪪 Summary

Software Engineer with 3+ years of experience building scalable, high-availability systems. Strong in Java, Rust, Go, Python, JavaScript, backend services, distributed systems, and cloud infrastructure. Proven ability to deliver performance-critical, production-grade software.

🎓 Education

B.Tech in Computer Science
Shri Guru Sandipani Institute of Technology
CGPA: 7.6

🧠 Technical Skills

Languages
Java Rust Go Python JavaScript TypeScript

Frameworks
Spring Boot Node.js Django Flask FastAPI .NET Core

Frontend
Angular React Next.js

Databases
MongoDB MySQL PostgreSQL

Systems & Cloud
AWS Docker CI/CD Nginx

Concepts
Data Structures Algorithms OOP System Design Microservices REST GraphQL

AI/ML
TensorFlow PyTorch Reinforcement Learning LLM Integration

📋 Certificates

- 5-Day AI Agents Intensive Course with Google (Kaggle)
- Deep Agents with LangGraph Course with LangChain Academy
- Certificate of Participation in End-to-End Machine Learning on Vertex AI
- Certification: Blockchain Basics

💼 Experience

Software Engineer
Profilics Systems Pvt. Ltd.
01/2022 – Present

- **Planned and delivered** scalable backend and full-stack systems supporting 15,000+ users and 5,000+ daily transactions
- **Built** REST and GraphQL APIs in Java, Go, Node.js, and Python, reducing latency by 40%
- **Enhanced** high-performance services and automation pipelines, improving system efficiency by 35%
- **Deployed and maintained** production systems on AWS using Docker and CI/CD, achieving 99.95% uptime
- **Collaborated** with cross-functional teams to deliver secure, reliable, and maintainable software at scale

📁 Projects

Secure File Storage & Sharing System
Go, React, PostgreSQL, AWS S3

- **Created** a secure file-sharing platform with JWT authentication, RBAC, and cloud-based storage
- **Optimized** backend services for reliability and throughput using Go and Rust

Dealership CRM (DP360)
Angular, CakePHP, MySQL, AWS

- **Built** a modular CRM platform with CI/CD pipelines and cloud deployment
- **Achieved** 99.8% uptime through containerization and automated monitoring

Endorsement Platform
Angular, FastAPI, MongoDB, GraphQL

- **Engineered** a high-throughput engagement platform handling 10,000+ daily interactions
- **Improved** API response times by 25% through query and schema optimization

Real-Time Distributed Analytics Platform
Java, Kafka, Flink, Redis, PostgreSQL, AWS, Docker

- **Planned and deployed** a real-time distributed analytics platform processing millions of events per day using Kafka-based stream processing
- **Implemented** Exactly-once processing, horizontal scaling and Redis caching, reducing query latency by 45%
- **Delivered** production deployment on AWS using Docker and CI/CD pipelines

Node.js Order & User Management Platform
Node.js, Express.js, PostgreSQL, Sequelize, Redis, JWT, AWS

- **Built** a scalable RESTful backend featuring normalized schemas and indexed queries, achieving a 30% reduction in query latency
- **Enhanced** read performance and reduced database load using Redis caching
- **Implemented** secure JWT-based authentication, RBAC, and API authorization
- **Deployed** the application on AWS using Docker containers and automated CI/CD pipelines

Collaborative Task Management Application with Real-Time Updates
Next.js, Node.js, PostgreSQL, Prisma ORM, RabbitMQ, Docker, AWS

- **Created** a full-stack task management platform with real-time collaboration features
- **Integrated** asynchronous processing using RabbitMQ and real-time updates via SSE/WebSockets
- **Deployed** scalable infrastructure on AWS (ECS/Fargate, RDS, S3, CloudFront) with GitHub Actions CI/CD

Invoice & Billing Management System
Django, Django REST Framework, PostgreSQL, Celery, Redis, AWS S3, Docker

- Built a **scalable, multi-tenant invoice and billing system** using **Django and Django REST Framework**, implementing **JWT authentication**, **role-based access control (RBAC)**, and secure organization-level data isolation.
- Designed and implemented **end-to-end invoice lifecycle management** (Draft, Sent, Paid, Overdue) with **automated invoice numbering**, tax and discount calculations, and **PDF invoice generation** stored securely on **AWS S3**.
- Developed **asynchronous background processing** using **Celery and Redis** for email notifications, payment reminders, and scheduled tasks, improving system reliability and operational efficiency.
- Modeled and optimized **PostgreSQL relational schemas**, integrated **payment tracking with Stripe (sandbox)**, and deployed the **Dockerized application** on cloud infrastructure with CI/CD best practices.