

# Pratik Raut

## Software Engineer - Full-Stack, Backend & AI Engineering

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📍 India

🌐 GitHub

🌐 LinkedIn

🔗 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

### 📁 PROJECTS

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

Designed 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, Java, 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

Developed 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, Rust, Kafka, Flink, Redis, PostgreSQL, AWS, Docker

Designed and deployed a real-time distributed analytics platform processing millions of events per day, using Kafka-based stream processing and low-latency services in Java and Rust. Implemented exactly-once processing, horizontal scaling, and Redis caching, reducing query latency by 45%, with production deployment on AWS via Docker and CI/CD.

#### Node.js Order & User Management Platform,

#### Node.js, Express.js, PostgreSQL, Sequelize, Redis, JWT, AWS

Developed a scalable RESTful backend using Node.js, Express, and PostgreSQL, featuring normalised database schemas, optimized queries with indexing (achieving 30% reduction in query latency), and Redis caching for enhanced read performance and reduced database load. Implemented secure JWT-based authentication, role-based access control (RBAC), and API authorization.

Deployed the application on AWS using Docker containers and automated CI/CD pipelines with environment-specific configurations.

#### Collaborative Task Management Application with Real-Time Updates, Next.js, React, Node.js, Express, PostgreSQL, Prisma ORM, RabbitMQ, Docker, AWS (ECS/Fargate, RDS, Amazon MQ, S3, CloudFront), GitHub Actions (CI/CD), JWT Authentication, SSE/WebSockets for real-time updates, Tailwind CSS

Developed a full-stack Trello-like task management platform with real-time collaboration features using Next.js for the responsive frontend, Node.js/Express for the scalable RESTful backend, PostgreSQL as the relational database, RabbitMQ for asynchronous message queuing and background processing, and AWS for deployment.

### 📁 EXPERIENCE

#### Software Engineer, Profilics Systems Pvt. Ltd.

01/2022 – Present | India

Designed 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% Developed 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

### 📄 CERTIFICATION

- - 5-Day AI Agents Intensive Course with Google (Kaggle)
- - Deep Agents with LangGraph – LangChain Academy