

# SAMADHAN GHORPADE

Backend Software Engineer | Java 21 | Spring Boot | AWS  
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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## PROFESSIONAL SUMMARY

Backend Software Engineer specializing in Java 21, Spring Boot, and AWS with 1+ year of freelance experience building and deploying 2 live production applications with real users. Hands-on experience across full AWS infrastructure (EC2, RDS, S3, Lambda, CloudFront, ALB, ECR, Route 53), CI/CD pipeline. Built async video transcoding pipelines using AWS Lambda and FFmpeg, Razorpay payment integration with HMAC SHA256 webhook verification, and secure REST APIs with Spring Security. Final-year B.Tech student at IIIT Sonapat (May 2026). Comfortable Owning the full SDLC – architecture to production

## TECHNICAL SKILLS

**Languages:** Java 21 (primary), SQL, JavaScript, Python.

**Backend:** Spring Boot, Spring Security (JWT, OAuth2, 2FA), Hibernate/JPA, REST APIs

**Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, CloudFront, ALB, ECR, Route 53, ACM, Amplify), Docker, GitHub Actions CI/CD

**Databases:** PostgreSQL, MySQL

**Testing & Docs:** Postman, Swagger/OpenAPI.

**Architecture:** Design Patterns (Strategy, Observer, Factory), Clean Architecture, TDD

**Tools:** Maven, Git/GitHub, IntelliJ IDEA, Docker, DBEaver, Linux (Ubuntu, Arch, Fedora), FFmpeg, HLS Streaming

## PROFESSIONAL EXPERIENCE

### Freelance Backend Software Developer | Remote

Jan 2025 – Present

Full-stack backend engineer delivering production-ready systems for paying clients

#### [MakeSenseEdu](#) – EdTech Platform

- Built and deployed [MakeSenseEdu](#) – live EdTech platform using Java 21, Spring Boot, React, and PostgreSQL with course management, HLS video streaming, and admin dashboard
- Architected serverless async video transcoding pipeline: S3 direct upload → **AWS Lambda + FFmpeg** → multi-quality HLS output (360p/720p/1080p) with async status tracking, **reducing server load to zero for video processing**
- Deployed complete AWS production infrastructure within **\$60/month**: VPC, EC2, RDS PostgreSQL (private subnet), ECR, S3, CloudFront, ALB, ACM SSL, Route 53, Amplify via GitHub Actions **CI/CD & Docker**
- Integrated **Razorpay** payment gateway with **HMAC SHA256** webhook signature verification, idempotency keys, and fallback reconciliation to prevent duplicate payment failures

#### [Hotel Kalsubai Camping](#) – An Hotel Website

- Built and deployed [Hotel Kalsubai Camping](#) – using Spring Boot, React, JWT authentication, and admin management features
- Managed **automated CI/CD pipeline**: GitHub Actions → Docker → ECR → EC2 (Ubuntu) for **zero-downtime deployments** across both production systems
- Owned **full SDLC** across both projects: requirements gathering, system architecture, development, testing, deployment, and client communication

## TECHNICAL PROJECTS

### Async Image Processing System — Java 21, Virtual Threads, StructuredTaskScope, JavaFX

Oct 2024 – Dec 2024

[Demo](#) | [Code](#)

- Engineered a high-performance concurrent image processing engine using **Java 21 Virtual Threads** and **StructuredTaskScope**, processing **900+ tiles concurrently within 150–300 ms** for Full HD images.
- Implemented **9 image filters** using parallel tile-based execution with zero shared-state conflicts.
- Added **real-time UI (JavaFX)** showing thread usage, memory, and processing time with drag-and-drop support and side-by-side preview.

### Volexo — Ride Booking Backend — Spring Boot, Spring Security, REST APIs, PostgreSQL

Mar 2025 – Apr 2025

[Demo](#) | [Code](#)

- Built Spring Boot REST API backend: real-time ride requests, driver assignment, wallet-based payments. Spring Security with RBAC across Rider, Driver, and Admin roles.
- Optimized ride allocation using **Strategy design pattern** — **reduced average ride wait time by 50%**.

### SafeNote — Secure Note-Taking App — Spring Boot, React, JWT, OAuth2, PostgreSQL

Jan 2025 – Feb 2025

[Demo](#) | [Code](#)

- Built a full-stack secure note-taking app using Java Spring Boot (backend) and React (frontend).
- Leveraged Spring Security to implement **JWT-based authentication, OAuth2 (Google & GitHub), Two-Factor Authentication (2FA)**, and a secure password reset flow.
- Designed a responsive UI with a **rich-text editor (bold, italics, underline)** and integrated live audit logs, which **improved user engagement by 40%**
- Created an **admin dashboard with RBAC**, documented APIs using **Swagger**, and validated endpoints with Postman.

## EDUCATION

### B.Tech, Computer Science — Indian Institute of Information Technology, Sonapat (IIIT Sonapat)

Expected May 2026

Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Organization, Software Engineering, Distributed Systems, OOP, Statistics, Discrete Mathematics

## CERTIFICATIONS

Java (HackerRank) | Spring Boot & Spring Security (Udemy / Coding Shuttle) | DSA (Apna College) | Postman API Fundamentals (Badgr) | Walmart SWE Virtual Experience (Forage) [View All](#)