

Ashmit Garg Java, Spring Boot, Microservices | Fintech & Scalable Systems

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Professional Experience

Software Engineer, *TransactBox*

07/2024 – present
Remote

- **Designed and implemented an in-app chat system** leveraging **Firestore Realtime Database**, handling **10K+ concurrent users**, improving user engagement by **30%**, and enabling **real-time reactions, replies, and group messaging**.
- Built and integrated **timezone localization support** across all **backend services** using Java's **java.time API**, this enabled the company's expansion from a **UK-only system to a global platform**, starting with **India**.
- Engineered **RESTful microservices** with Java and Spring Boot to power an internal **Admin Portal**, reducing **support resolution time by 40%** and eliminating the need for manual database queries.
- Led end-to-end implementation of **multi-currency support**, integrating **5 new currencies** into **Stripe and GoCardless** payment flows. Additionally, onboarded **Cashfree** as a new payment provider to enable **INR transactions**, enabling market entry into India and **supporting localized payments**.
- Led **CI/CD** pipeline automation and **production monitoring** for microservices, improving **system uptime and performance** and **reducing deployment effort by 50%**.
- Refactored **legacy dependencies** to modern **Spring Boot** stack, resolving compatibility issues and enhancing **long-term maintainability**.

Software Development Intern, *IdeaS Revenue Solutions*

07/2023 – 06/2024
Pune, India

- Reduced **data retrieval latency 38%** by building **high-throughput** data ingestion pipeline (**Spring Batch, MongoDB**) for our in house analytics platform.
- Built an interactive UI for **App Support Monitoring** system with '**pause/resume**' job controls, cutting **manual API calls by 90%**.
- Automated **1500+** test cases per sprint using **JUnit and Selenium**, decreasing **regression time 90%** and accelerating **Agile** releases.

Education

B.Tech in Electronics and Communication Engineering, *MIT World Peace University*
CGPA - 8.99/10

2020 – 2024
Pune, India

Projects

Blackjack Strategy Analyzer, *Java, Spring Boot, JWT, Kafka, Redis, React, Typescript* 🔗

10/2025 – Present

- Designed and engineered a **full-stack Blackjack simulation lab** to **model, benchmark, and visualize betting strategies**, providing quantitative feedback on **long-term win probabilities and ROI** using **Monte Carlo simulations**.
- Developed a distributed backend architecture with an **event-driven** Spring Boot core, **enabling asynchronous simulation** of over **10 million** game rounds using **Kafka workers** and **Redis caching**.
- Implemented **secure, token-based user authentication** with **Spring Security and JWT**, supporting persistent sessions, **role-based access**, and personalized strategy storage.
- Built a **responsive analytics dashboard** with **React and TypeScript**, visualizing real-time simulation results (**EV, win/loss ratios, and performance trends**) using REST APIs and Recharts.

ClipIt - YouTube Video Processing Platform, *Java, Spring Boot, yt-dlp, FFmpeg, MySQL* 🔗

02/2025 – 04/2025

- Designed and implemented a **Spring Boot** backend service that integrates **yt-dlp** and **FFmpeg** for automated **YouTube video/audio download, processing, and transcoding** workflows.
- Built an asynchronous job execution pipeline with **status tracking, error handling, and dynamic file management**, ensuring reliable long-running task execution.
- Developed a metadata extraction and format discovery API by parsing **yt-dlp's JSON output**, enabling clients to query available video/audio formats and request downloads at specific resolutions and bitrates.

Skills

Java | SpringBoot | REST | MySQL | Docker | Kubernetes | GENAI | Data Structures | Algorithms |
Distributed Systems | MongoDB | Kafka | Agile | Shell Scripting | JUnit | AWS | CI/CD | Version Control(Git)