

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 **Firebase 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** 2020 – 2024
CGPA - 8.99/10 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)