Avinash Kumar

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Professional Summary

Java Backend Developer with 3 years of experience in designing, developing, and maintaining scalable, secure, and high-performance Java applications. Proficient in building microservices with Spring Boot, integrating RESTful APIs, and working with both relational (MySQL, PostgreSQL) and NoSQL (MongoDB) databases. Experienced in Agile product teams, CI/CD (Jenkins, Git), Docker, and version control. Strong in debugging, performance optimization, and writing maintainable code. Effective communicator and problem-solver with a focus on code quality and collaboration.

Education

Future Institute of Engineering and Management   **Aug 2018 – June 2022**
Bachelor of Technology in Computer Science and Engineering (GPA: 8.73)   *Kolkata, West Bengal*

Work Experience

Nagarro   **Aug 2022 – June 2025**
Engineer   *Gurgaon, Haryana*

- Developed and optimized 10+ microservices for BFSI applications using **Spring Boot**, **Java**, and **RESTful APIs**, improving scalability and reducing response time by 25%.
- Integrated third-party services (PAN, Aadhaar, Equifax, and AML APIs) for customer verification, reducing onboarding time by 30% and ensuring 100% regulatory compliance (KYC/AML).
- Implemented **Spring Security**, **JWT**, and **OAuth2** to secure 50+ API endpoints; conducted regular code reviews to ensure clean, maintainable code.
- Engineered **multi-threaded disbursement modules** using **Java 8 Concurrency (Executors, CompletableFuture)**, capable of handling 1000+ concurrent transactions per minute.
- Implemented automated **CI/CD pipelines** using **Jenkins**, integrated with **Docker** and Git, reducing release cycle by 40%.
- Collaborated with cross-functional product teams in Agile sprints, participated in daily stand-ups, story estimation, and delivered backend modules on time with 90%+ test coverage.
- Contributed to **Payout Validation** and **Loan Disbursement** APIs with proper audit logging and exception handling, ensuring compliance and traceability.

Project

Smart Expense Tracker Application

- Built a full-stack Expense Tracker using **Angular**, **Spring Boot**, and **PostgreSQL** with secure **JWT**-based authentication.
- Developed responsive UI with **Chart.js**, filters, and Google login; improved user interaction and expense categorization accuracy by 20%.
- Designed secure **REST APIs** for budget tracking and expense analysis; automated deployment via **Jenkins** and added Kafka-based alerts, reducing manual checks by 30%.

Technical & Programming Skills

- **Languages**: Java, SQL
- **Frontend**: Angular, Material UI
- **Backend**: Spring Boot, Spring Security, JWT, Kafka, REST APIs, JPA/Hibernate, Microservices
- **Databases**: MySQL, PostgreSQL, MongoDB
- **Testing**: JUnit, TestNG, Mockito
- **DevOps**: Docker, Kubernetes, Jenkins (CI/CD)
- **Version Control**: Git
- **Tools**: IntelliJ, VS Code, Postman, Maven

Achievements & Certifications

- Secured finalist position in the **Capgemini Tech Challenge 2021** by solving advanced problems in **Java**, **data structures**, and **algorithms**.
- Won **1st prize** at **Xplorica Tech Fest 2022** for developing a **Gesture-Controlled Bot** using **Arduino** and **Python**, outperforming 50+ participants.
- **Completed Java SE & EE Microservices** course (Naresh IT, Hyderabad) – strengthened backend skills.