DEEPIKA GOVINDASWAMY

Java Backend Developer | Spring Boot | Distributed Systems | Microservices

deepikagovindaswamy@gmail.com | UK (Open to Relocation) | +44 7823518785 | LinkedIn | GitHub

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Java Developer functionally building production-ready backend systems without a formal title. Specialized in designing scalable microservices, event-driven architectures, and secure high-performance APIs using Java, Spring Boot, Docker, Kubernetes and cloud platforms. Proven ability to deliver end-to-end systems that reduce operational bottlenecks, automate workflows, and enhance system reliability — backed by hands-on experience building enterprise-grade fintech and SaaS solutions.

SKILLS

Languages: Java, Python, Bash, JavaScript, SQL.

Backend and Cloud: Spring Boot, Hibernate/JPA, AWS (EC2, IAM, S3), Docker, Kubernetes, CI/CD pipelines, Apache Kafka

Architectures and Methodologies: Microservices, Event-Driven Architecture, Distributed Systems, REST APIs

Tools and Frameworks: Git, GitHub, GitHub Actions, GitLab, React, Node JS, Fast API, Postman.

EXPERIENCE

Software Development Engineer Intern - **Igarashi Motors India Ltd**   **(July 2022 – August 2022)**

- Collaborated in a 6-member team to develop an Oracle-based database schema for an Incident Management System.
- Participated in Agile sprints with cross-functional engineering teams, contributing to a **25% increase in feature delivery speed** through structured backlog refinement and better sprint planning.

PROJECTS

REMIX - E-Waste Management Application.   **University of Sheffield | February 2025 – April 2025**
Java, Spring Boot, Spring Security, Hibernate, MySQL, Vue JS.

- Collaborated in an Agile/Scrum environment to develop the backend of the system using Java, Spring Boot, Spring Security, and Hibernate/JPA to handle authentication, device management, and order workflows, improving system reliability and scalability.
- Integrated **Stripe-based PCI-compliant payments**, reducing payment processing friction by **70%** and automated confirmation emails, reducing manual processing by **60%**.
- Implemented QR-driven traceability workflows, speeding recycler processing by **35%**.
- Delivered fully documented REST APIs with Swagger, **reducing integration effort** by **50%**.

Stock Portfolio Management System with Integrated Risk Analysis.   **University of Sheffield | June 2025 – August 2025**
Java, Spring Boot, Hibernate, FastAPI, PostgreSQL, React, Docker.

- Architected a **microservices-based fintech system** with real-time portfolio valuation and risk analysis, **reducing response latency** by **30%** through optimised SQL queries (Evaluated using EXPLAIN ANALYSE).
- Integrated Stripe-based PCI-compliant payments, reducing payment processing friction, enabling **100% secure transactions** and robust error handling for resilience.
- Implemented an AI-powered FastAPI service performing clustering, volatility calculation, and diversification insights, improving investor decision-making accuracy by **45%**.
- Containerized the entire system using Docker, enabling **single-command deployments** and simplified developer onboarding.

EDUCATION

Master of Advanced Computer Science - Distinction

The University of Sheffield – School of Computer Science, Sheffield, UK (September 2024 – September 2025)

Bachelor of Engineering, Computer Science and Engineering - **Distinction**

Sri Venkateswara College of Engineering, India (2020 –2024)