Shritesh Jamulkar

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Professional Summary: Software Engineer with 4 years of enterprise backend and full-stack expertise across Java, Python, Spring Boot, microservices, Kubernetes, and DevOps, complemented by hands-on blockchain development (Polkadot, Ethereum, Hyperledger) and a passion for protocol engineering.

Work Experience

THG Ingenuity   Manchester, UK
Software Engineer   Nov'23 - Nov'25
- Stockmanager and various other microservices - In Stock and Availability Team
  - Architected scalable microservices including Stockmanager, Dropshipmanager, Allocation service and Stock UI with **Spring and Angular frameworks** to deliver front-end and back-end e-commerce solutions, with over 90% unit test coverage.
  - Moved legacy **Tomcat-based servers to a Kubernetes-based architecture** and designed **Jenkins pipelines** for a seamless deployment process, reducing manual jar deployments. This improved deployment time from 30 minutes to 10 minutes using Docker-based containerized deployment.
  - Engineered multi-database layer spanning **Microsoft SQL Server, CockroachDB, and CouchDB (SQL & NoSQL)** reducing database overhead by 40% through optimized batched queries."
  - **Led 3+ key client integrations** (Warehouse, Fulfillment, Stock, Orders) processing 500K+ SKU updates daily, reducing stock discrepancies by 85%. Provided solutions for **plug and play architecture in e-commerce domain**, and owned production support for critical integrations and incidents, while ensuring on-time delivery and smooth collaboration across various teams.

Samsung Research & Development Institute, Bangalore   Bangalore, India
Software Engineer   Jul'21 - Oct'23
- LTE System Manager (LSM) Project - In Management Software & Analytics Team
  - Engineered full-stack **Java spring-based LSMR project, specializing in FM (Fault Module)** supporting 10+ telecom operators across 4 countries, managing 100K+ network events and 1000+ distinct GSM tower alarms as the core Fault Detection module.
  - Optimized inter-service communication reducing latency by 25% and improving network monitoring responsiveness for real-time fault detection.
  - Designed the **Python selenium-based automation testing** for entire Element Management System (EMS) software.
- Samsung Software Competency Test (SWC) - Advanced Level

The Linux Foundation
Hyperledger Mentorship Program 2021 - Mentee   Jul'21 - Dec'21
- Hyperledger - Implement cross chain contract invocation using ServiceMesh way
  - Designed and implemented cross-chain smart contract protocol enabling secure contract invocation between **Hyperledger Fabric and Besu**.
  - Engineered sidecar relay to facilitate the contract invocation in Java spring framework.

Research Publications

- **Jamulkar, S.**, Chandrakar, P., Ali, R., Agrawal, A. and Tiwari, K., 2021, March. Evidence management system using blockchain and distributed file system (ipfs). In International Conference on Machine Learning and Big Data Analytics (pp. 337-359). Cham: Springer International Publishing.
- **Jamulkar, S.**, Verma, M.K. and Naik, K.J., 2022. An echo-based autonomous real-time system for efficient maintenance of students attendance. International Journal of Intelligent Information and Database Systems, 15(4), pp.353-376.

Education & Extra Curricular Activities

Masters of Science, Trinity College Dublin   Dublin, Ireland
Computer Science - Future Networked Systems   Sep'22 - Aug'23
Bachelor of Technology, NIT Raipur   Raipur, India
Computer Science and Engineering   Aug'17 - May'21

- **Conference Talks** - Kafka Summit 2024, PyCon Limerick 2023
- **EasyA x Polkadot London Hackathon 2024** - Built a pallet for Farcaster Frames integration. Link to repository