Dhanur Motwani

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WORK EXPERIENCE

Software Engineer   May 2022 - August 2025
Tata Consultancy Services, Seattle, WA

- Developed and maintained Spring Boot microservices for a pharmaceutical client's inventory management system, handling stock tracking, receiving, and distribution of pharmaceutical products.
- Built and consumed RESTful APIs to enable real-time updates across warehouse, order, and supplier modules, ensuring accurate stock availability.
- Created and deployed a stock reconciliation component that automatically validates and syncs stock quantities across multiple warehouses, reducing inventory mismatch errors by 40%.
- Led a cross-functional initiative to optimize inventory synchronization workflows, implementing automated validation scripts that improved data accuracy and reduced manual reconciliation efforts by 35%.
- Optimized JDBC queries to streamline stock reconciliation and order processing, reducing query execution time by 30%.
- Integrated Spring Security with OAuth2/JWT to safeguard patient and drug inventory data.
- Automated deployments by maintaining CI/CD pipelines using Jenkins, Docker, Kubernetes, and OpenShift, cutting release times by 20%.

Software Developer Intern   *July 2021 – May 2022*
Bright Mind Enrichment, Boston, MA

- Developed interactive UIs using React, JSP, and CSS3, boosting user engagement for a public-facing incentive platform by 20%.
- Integrated multi-platform APIs and H2 database to consolidate COVID-19 vaccine incentive programs, resulting in 40% improved data accessibility and streamlined management.
- Built and executed unit tests with JUnit, achieving 85% code coverage and reducing production defects by 20%.
- Authored comprehensive documentation for system processes and user guides, resulting in a 30% improvement in onboarding efficiency and reducing training time for new employees by 5 hours.
- Secured fifteen thousand dollars in grant funding by designing and implementing core platform features with React and JSP, significantly expanding user outreach and strengthening stakeholder trust.

PROJECTS

AI Recipe Generator   *October 2025*

- Architected and built a secure, RESTful API using Java, Spring Boot, Spring Security (JWT/OAuth2), and JPA to power an AI-driven application.
- Implemented LLM integration for recipe generation and a smart shopping list feature with email notifications via Spring Mail.

Health Navigator AI   *December 2025*

- Designed and built a multi-agent generative AI application using Python and Google Vertex AI Reasoning Engine to provide health guidance.
- Orchestrated specialized LLM agents that integrate real-time data from CDC/WHO and TuGo APIs, along with a custom Model Context Protocol (MCP) server for medical knowledge.

EDUCATION

Northeastern University, MA, USA
Master of Science in Information Systems   *May 2022*

Rajiv Gandhi Proudyogiki Vishwavidyalaya, MP, India
Bachelor of Engineering in Computer Science   *June 2018*

SKILLS

Programming Languages:	Java, Python, JavaScript [ES6], TypeScript
Backend:	Spring MVC, Spring Boot, Hibernate ORM, JPA, Node.js
Databases:	MySQL, Microsoft SQL Server, MongoDB, H2
Cloud & DevOps:	Kubernetes, Docker, OpenShift, Jenkins, Argo CD, Terraform
Frontend Technologies:	HTML, CSS, jQuery, Bootstrap
Tools:	Git, Postman, Splunk, Dynatrace, Jira