Amritraj Singh Dhillon
Software Engineer

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SUMMARY

Software Engineer with 3+ years of experience specializing in Java-based development, designing scalable microservices, and optimizing high-performance systems. Expert in leveraging Java 8+, Spring Boot, and cloud-native technologies (AWS, Docker, Kubernetes) to deliver robust solutions, reducing latency by up to 35% and deployment times by 50%. Adept at building RESTful APIs, real-time data pipelines, and CI/CD workflows, achieving 99.9% uptime for systems handling 1M+ daily transactions. Passionate about code quality, with a track record of achieving 90%+ test coverage and cutting production bugs by 35%.

SKILLS

Methodologies & SDLC: Agile, Scrum, Kanban, SDLC, Waterfall, TDD (Test-Driven Development)
Programming Languages: Java (Core Java, Java 8/11/17), Python, SQL, JavaScript, TypeScript
Frameworks & Technologies: Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, JUnit, Mockito, Microservices, Apache Kafka, Struts
Databases & Storage: MySQL, PostgreSQL, MongoDB, Oracle DB, AWS (S3, RDS, DynamoDB), Redis, Elasticsearch
Cloud & DevOps: AWS (EC2, Lambda, ECS, CloudFormation), Azure, GCP, Docker, Kubernetes, Jenkins, Git, GitHub Actions, Terraform, Ansible
Web Development & APIs: HTML5, CSS3, React, Angular, Node.js, RESTful APIs, GraphQL, SOAP
Tools & IDEs: IntelliJ IDEA, Eclipse, VS Code, Maven, Gradle, Apache Tomcat, Postman, Splunk
Additional Skills: Multithreading, Concurrency, Design Patterns (Singleton, Factory, Observer), Performance Tuning, Security Best Practices

EXPERIENCE

DXC Technology, OH | Mar 2024 - Current | Software Engineer

- Engineered a high-performance SaaS platform using Java 8, Spring Boot, and Hibernate, boosting scalability and reducing latency by 35% for 1M+ daily users.
- Led migration of legacy Java monolithic applications to microservices with Docker and Kubernetes, cutting deployment times by 50% and infrastructure costs by 25%.
- Optimized MySQL and PostgreSQL databases with indexing and query tuning, improving execution times by 30% and reducing server load by 20%.
- Designed and implemented a real-time data pipeline with AWS Lambda, Kafka, and DynamoDB, ensuring 99.9% uptime for 1M+ transactions daily.
- Enhanced RESTful API performance using Redis caching and Java multithreading, slashing response times from 800ms to 300ms.
- Streamlined CI/CD pipelines with Jenkins, Maven, and GitHub Actions, reducing build failures by 40% and enabling zero-downtime deployments.

Quantum Integrators | Jan 2022 – Feb 2024 | Java Developer

- Developed and maintained a Java EE e-commerce platform with Spring MVC and Hibernate, supporting 10,000+ users with 99.5% uptime.
- Refactored legacy Java codebases to Java 11, improving application performance by 25% and reducing memory usage by 15%.
- Integrated Elasticsearch with Java Spring Boot for sub-second search capabilities, cutting page load times by 40% and boosting user engagement by 25%.
- Automated deployments with Kubernetes and Jenkins, reducing manual effort by 60% and increasing release frequency by 30%.
- Optimized MongoDB and MariaDB queries using Java JPA, improving throughput by 20% and lowering storage costs by 15%.
- Established a robust testing framework with JUnit, Mockito, and TestNG, achieving 90% code coverage and reducing production bugs by 35%.

EDUCATION

Associate of Science — July 2022
Cuyahoga Community College, Cuyahoga

Bachelor's Degree in Computer Science — Minor in Mathematics — Dec 2024
Cleveland State University, Cleveland

PROJECTS

Personal Portfolio Website| Portfolio — Fall 2023

- Created a professional website to showcase personal information and coding skills, initially developed using HTML and CSS.
- Currently updating and improving the website using React to enhance interactivity and user experience.
- Demonstrated expertise in front-end web development, applying best practices in responsive design and website optimization.

Nasa Psyche VR — Aug 2023 - May 2024

- Implemented a C" Walking" function for a robot, allowing it to travel across difficult terrain.
- Developed a" Stone Picking" function using a complex algorithm in C to enable efficient recognition and collection of stones.
- Created an" Analysis Samples" function in C to gather and examine samples sent by rovers for scientific research.

Banking System — Aug 2024 - Dec 2024

- Implemented a full-stack banking application with functional front-end and back-end components.
- Demonstrated expertise in React, Spring Boot, and MySQL through the development of a comprehensive banking system.
- Integrated modern technologies such as Kafka, Docker, and REST API to optimize backend performance.
- Designed scalable application architecture using conceptual, logical, and physical design models for future growth.
- Applied relational database technology (MySQL) and ensured data consistency through rigorous testing, debugging, and use of industry-standard SDLC processes.
- Developed and executed test plans to validate the functionality of the system.