

DEVENDRA YADAV

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SOFTWARE ENGINEER | JAVA DEVELOPER

Results-driven Software Engineer with 5+ years of experience building secure, scalable, and high-performance microservices in Core Java (8, 17, 21) and Spring Boot, focused on agentic AI development with the OpenAI Agents SDK. Designs multi-agent workflows using agents, tools, handoffs, guardrails, sessions, and tracing, and connects those agents to production backends through Spring Boot REST APIs, Kafka, and relational databases. Strong in distributed systems, multithreading, concurrency, and Java 21 Virtual Threads (Project Loom). Experienced in Kafka-based event-driven architectures, SQL optimization across PostgreSQL, MySQL, MongoDB, and Cassandra, plus AWS, CI/CD pipelines, and Agile development. Certified as an Oracle Certified Professional, Java SE 21 Developer, and as an AWS Certified Solutions Architect – Professional.

Agentic AI Development • OpenAI Agents SDK Multi-Agent Orchestration Tool Calling & Handoffs
Design Patterns • Database Design & Management • Microservices Architecture • Multithreading & Concurrency
• Kafka Event Streaming • CI/CD Pipeline Implementation • Cloud Computing & Deployment
System Design & Scalable Architecture • Core Java • SQL Query Optimization • NoSQL Data Modeling

Languages: Java (8, 17, 21), JavaScript

Agentic AI: OpenAI Agents SDK (agents, tools, handoffs, guardrails, sessions, tracing), structured outputs, MCP

Web: HTML, CSS, WebSocket, ReactJS

Web Services: REST, JWT, GraphQL

Message Streaming: Kafka

SQL: Joins, Subqueries, Aggregate Functions, Indexing, Query Optimization

Cloud Services: AWS(EC2, ECS, S3, MSK, RDS, Lambda, CloudWatch, Fargate, API gateway, ElastiCache), Gitlab Actions, CI/CD Pipelines

Web/App Servers: Tomcat, nginx, Apache

Frameworks: Spring Boot

Databases: PostgreSQL, MongoDB, MYSQL, Cassandra (Distributed data modeling, including partition keys, clustering columns, and high-availability design patterns.)

Design Patterns: Singleton, Builder, Factory, Dependency Injection, Strategy

SDLC: Agile

Tools: Maven, GitHub, Docker, Jenkins, Slack, Jira, Grafana, Prometheus, Zipkin, Hibernate, JPA, JUnit, Kafka, OpenAI Agents SDK

Platforms: MacOS, Linux, Windows

IDEA: IntelliJ IDEA, VS Code

PROFESSIONAL EXPERIENCE

DREAMCODER PVT. LTD., Kathmandu, Nepal • 12/2020 – 08/2025

Software and marketing solutions.

Software Engineer

Build the parts of an online shopping website.

- Developed backend services for an online shopping platform using Core Java, Spring Boot, Kafka, Hibernate, and MySQL, enabling product browsing, order placement, and secure payment workflows supporting 500+ daily user transactions.
- Designed and implemented secure RESTful APIs and microservices using Spring Boot, improving response time by 20-30% and ensuring scalable distributed system integration.
- Designed Kafka-based event-driven architecture using producers, consumers, partitions, replication, and consumer groups. Implemented offset management, fault tolerance, and high-throughput message processing. Experience with Kafka internals including broker coordination, leader election, and scalability patterns.
- Utilized Java 21 Virtual Threads (Project Loom) to improve concurrency handling and reduce thread management overhead in high-load services.
- Redesigned and optimized database schemas and SQL queries using joins, subqueries, aggregate functions, and indexing in MySQL and Hibernate, improving data retrieval performance by 30% and supporting scalable data handling.

- Worked with relational and NoSQL data storage using MySQL and MongoDB and gained exposure to Cassandra concepts such as partition keys, clustering columns, and high-availability-oriented data modeling.
- Applied secure coding practices and automated testing (JUnit), reducing production defects by 35% and ensuring high-quality, maintainable code.
- Deployed and maintained services on AWS-based servers, improving application availability and reducing downtime by 30%.
- Actively participated in code reviews, system design discussions, and optimization efforts, reducing issue resolution time by 40% and improving system maintainability.

Technologies Used: Java, Core Java, Spring Boot, Spring Security, Kafka, ReactJS, Hibernate, AWS, EC2, S3, MySQL, MongoDB, JUnit.

ARISEN TECHNOLOGIES, Gautam Buddha Nagar, INDIA • 08/2020 – 11/2020

An IT services provider offering software development and digital transformation solutions for businesses in US and India.

Software Developer

Implementation, Maintenance and addition of new features.

- Developed and enhanced course management modules using Core Java, Spring Boot, and MySQL, improving backend performance and reducing feature implementation time by 30% through modular service design.
- Contributed to the redevelopment of the company portal using Spring Boot and ReactJS, integrating modern technologies and resolving complex development issues, improving system maintainability and performance by 40%.
- Designed and optimized MySQL database schemas and SQL queries using joins, subqueries, and aggregate functions, improving data retrieval speed by 35% and ensuring efficient data storage for core application features.
- Implemented role-based access control using Spring Boot Security, enabling secure access for Admin, Teacher, and Student users and reducing unauthorized access risks by 50%.
- Developed responsive ReactJS-based user interfaces, improving cross-device compatibility and increasing user engagement by 25% while ensuring seamless integration with Spring Boot REST APIs.
- Implemented CI/CD pipelines using GitHub Actions with Git, Jira, and JUnit-based testing, automating build and deployment processes and reducing release cycles by 30%.

Technologies Used: Core Java, Spring Boot, Spring Security, MySQL, ReactJS, JUnit, Git, Jira, CI/CD GitHub Action.

ACADEMIC PROJECTS

Maharishi International University (2025)

MIU Food Ordering System (MFUS): A comprehensive Food Ordering System that enables customers to browse menus, customize orders, and securely complete payments through an intuitive digital interface. The platform streamlines restaurant order processing, reduces manual errors, and improves operational efficiency through automated order management, payment handling, and real-time order tracking. Utilized Spring Boot, Kafka, Git, Jira, CI/CD, and GitHub Action.

PERSONAL PROJECTS

Agentic AI Workflows — *OpenAI Agents SDK, multi-agent orchestration with tools, handoffs, guardrails, sessions, and tracing, integrated with Spring Boot REST APIs*

Cloud document conversion: Currently Providing Solution to the people – [Open](#)

Cloud File Storage Platform — *Java, Spring Boot, React, PostgreSQL, Currently Used Cloudflare R2 for frequent access*

Privacy-Focused Chat Application — *Java, Spring Boot, WebSocket, React*

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 08/2028)

Maharishi International University, Fairfield, Iowa

Key Courses: *Software Architecture, Enterprise Application, Algorithm, Software Engineering*

Bachelor of Science in Computer Engineering

National Institute of Technology Kurukshetra, Kurukshetra, Haryana/India (06/2020)

CERTIFICATIONS

[Oracle Certified Professional: Java SE 21 Developer](#)

[AWS Certified Solutions Architect – Professional](#)