

DEVENDRA YADAV

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SOFTWARE ENGINEER

Results-driven Java Developer with 5+ years of experience building secure, scalable, and high-performance microservices using Java and Spring Boot in cloud environments, with strong focus on distributed systems, CI/CD, and clean code practices. Experienced in designing RESTful APIs, microservices, and database-driven applications for e-commerce and enterprise platforms. Proven ability to improve system performance, optimize database operations, and implement secure backend services using Spring Security, authentication mechanisms, and secure coding practices using PostgreSQL, MySQL, MongoDB, and Hibernate. Skilled in CI/CD automation, cloud deployment, and collaborative Agile development, with hands-on experience using Git, GitHub Actions, AWS services, and modern testing frameworks. Passionate about building reliable, high-performance software solutions that enhance user experience and business efficiency.

- REST API Design & Development • Database Design & Management • Microservices Architecture • Test-Driven Development (TDD) • CI/CD Pipeline Implementation • Cloud Computing & Deployment • UI/UX Design Principles
- System Design & Scalable Architecture

Languages: Java, Python, JavaScript, SQL

Web: HTML, CSS

Web Services: REST API, GraphQL

Web/App Servers: nginx, Apache

Frameworks: Spring boot, NodeJS, ExpressJS, ReactJS

Databases: PostgreSQL, MongoDB, MYSQL

Design Patterns: Model View Controller

SDLC: Agile

Tools: Maven, GitHub, Docker, Jenkins, Slack, Jira, Grafana, Prometheus, Zipkin, Hibernate, JPA

Platforms: MacOS, Linux, Windows, AWS (EC2, S3, Route 53)

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **master's degree in computer science** (Available for full-time, W-2 employment).

PROFESSIONAL EXPERIENCE

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

Software and marketing solutions.

Java Developer

Build the parts of an online shopping website.

- Developed backend services for an online shopping platform using Spring Boot, Kafka (distributed event streaming), Hibernate, and MySQL, enabling product browsing, order placing orders, and complete secure payments, 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.
- Collaborated across cross-functional Agile teams (frontend, QA, product), participating in code reviews and improving delivery efficiency by 25% while maintaining high code quality.
- Integrated payment gateway and shipping service APIs, reducing checkout processing errors by 40% and improving transaction reliability for customers.
- Redesigned and optimized database schemas and queries using MySQL and Hibernate, improving data retrieval performance by 30% and supporting scalable data handling.
- 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, Spring Boot, Kafka, ReactJS, Hibernate, AWS, EC2, S3, MySQL, 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 Engineer

Implementation, Maintenance and addition of new features.

- Developed and enhanced course management modules using 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 queries, 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: Spring Boot, MySQL, ReactJS, JUnit, Git, Jirra, 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 by automating order management, payment handling, and real-time order tracking. Utilized Spring Boot, Jirra, git, CI/CD, GitHub Action.

PERSONAL PROJECTS

Enterprise AI Knowledge Assistant (RAG-based System) 2026: Built an internal AI tool that enables companies to query organizational knowledge through natural language. The system is powered by a Spring Boot backend responsible for document ingestion, processing, and API-based AI interaction, and integrates Ollama to run large language models locally, ensuring fully private and secure inference without any external API dependencies. To enable intelligent research, Implemented Retrieval-Augmented Generation (RAG) by generating vector embeddings and performing semantic search over company documents, with a scalable architecture designed to support multiple data sources including PDFs, documents, and internal databases. Technologies used include Java, Spring Boot, Ollama, Llama 3, RAG, vector embeddings, PostgreSQL, pgvector, REST APIs, Docker, and Git.

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