

SANDESH KHATIWADA

JAVA DEVELOPER

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SUMMARY

B.Sc. CSIT 8th semester student exploring backend development with Spring Boot alongside data science and machine learning. Hands-on experience building Java backend systems using Spring Data JPA, Spring Security, and PostgreSQL, with a solid grasp of JPA internals, Hibernate lifecycle, transactions, and DTO-based design. Worked on AI and automation projects using Python, Jupyter Notebook, and n8n. Familiar with multiple languages including Java, Python, C#, and JavaScript, with exposure to cloud, Linux, advanced databases, and Docker. Strong foundation in Data Structures and Algorithms and Microprocessor concepts.

TECHNICAL SKILLS

- Languages: Java (Core Java, OOP, Advanced Java), Python, C++, C#, JavaScript, PHP
- Frameworks: Spring Boot, Django, Flask, .NET, React
- Databases & Data Systems: MySQL, PostgreSQL, MongoDB, CockroachDB
- Cloud & Platforms: Microsoft Azure (VMs, App Services, storage, networking fundamentals)
- Big Data & Distributed Systems: Apache Hadoop (Ambari), basic cluster management & monitoring
- DevOps & Code Quality: Git, Maven, JUnit, SonarLint, SonarQube, SonarCloud
- Tools & Analytics: Jupyter Notebook, Power BI, Microsoft Office

PROJECTS

- **Naagarik Feedback System** : Java Swing, .NET, Spring Boot, SQL: Developed a citizen feedback platform in three versions (Java Swing, .NET, and Spring Boot); authored and submitted three formal reports (SAD, Software Engineering, and E-Government).
- **Hospital Management System** : Spring Boot, Spring Data JPA, Spring Security, PostgreSQL: Developed a backend system implementing authentication and authorization using Spring Security with JWT and OAuth2; handled entity relationships, DTO mapping, and JPQL queries; integrated Swagger for API testing, SonarCloud for code quality analysis.
- **College AI Agent Project** : Developed an AI agent for the college website as part of a Data Science and Machine Learning course; scraped website content to answer user queries, leveraging Ollama for LLM processing; implemented two versions; one with Flask integration and another using Lovable AI platform for seamless interaction.
- **AI for Skin Disease Detection** : Python, TensorFlow, Keras, CNN, MobileNetV1, DenseNet121: Developed a multi-class skin disease classifier on the DermNet dataset; implemented a custom CNN from scratch and applied transfer learning with MobileNetV1 and DenseNet121 for 9 skin disease classes; project includes full documentation and research references from academic papers.
- **Library Management System Django** : Built a web application for managing library operations (issue/return/search); completed under time-bound certification project with Django and Python.
- **E-Commerce Website** : WordPress, WooCommerce, SEO Tools: Developed a full-fledged e-commerce website using WordPress and WooCommerce; implemented coupon functionality, payment gateway integration with eSewa (sandbox), and SEO optimization using Yoast SEO, Rank Math, and SEO Quack; ensured end-to-end product management, checkout, and user experience.

EDUCATION

Bachelor of Science in Computer Science and Information Technology (2019-2021)

Orchid International College, Gaushala, Kathmandu

+2 in Science (2021 - 2026)

Prasadi Academy, Mabhawan Lalitpur

ADDITIONAL INFORMATION

- **Certifications:** Oracle Java SE 21 Developer (1Z0-830) - Udemy, Python & Django - Broadway Infosys, SQL Intermediate - HackerRank, Advanced WordPress Course - Udemy