

ANISH SHRESTHA

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Portfolio: <https://iamanish2061.github.io>
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Professional Summary

Motivated and detail-oriented Computer Science student with hands-on experience in full-stack web development using Java, Spring Boot, HTML, CSS, and JavaScript. Strong problem-solving and teamwork skills, demonstrated through real-world project experience and personal initiatives.

Technical Skills

Languages: Java, PHP, Python

Frameworks & Tools: Spring Boot, Hibernate, Apache Tomcat, MySQL, Git, IntelliJ IDEA, VS Code, Postman,

Concepts: Object-Oriented Programming (OOP), Database Management, RESTful APIs, E-commerce System Design, Network Fundamentals, Event Driven Architecture, APIs Integration, Redis, Kafka, RabbitMQ

Soft Skills: Communication, Adaptability, Teamwork, Time Management

Projects

1. E-Commerce Salon Website (The CutLab)

- **Full-Stack Architecture:** Developed a multi-actor ecosystem (Admin, Staff, Driver, User) using Spring Boot, JS, and Spring Security/JWT for role-based access control.
- **Recommendation Engine:** Built an async Collaborative Filtering system using Cosine Similarity and Redis vectors to provide personalized product suggestions.
- **Logistics Optimization:** Implemented a TSP Solver (Nearest Neighbor + 2-Opt) with OSRM and Leaflet.js to automate efficient delivery route planning.
- **Algorithmic Scheduling:** Engineered a multi-factor ranking algorithm to suggest optimal appointment slots by balancing user habits, staff load, and time-fit decay.
- **Real-Time Infrastructure:** Integrated RabbitMQ and WebSockets for live order updates and eSewa/Khalti for secure digital payments.

2. Fitness Advisor Website

- **Auto-Nutrient Calculation:** PHP engine that computes protein and calorie targets from user body metrics.
- **Daily Intake Tracker:** JavaScript for logging food and monitoring real-time nutritional progress.
- **Fitness Resource Hub:** Dynamic modules providing structured workout plans and diet descriptions.
- **Data Persistence:** MySQL integration for secure storage of user profiles and daily logs.

Experience

Freelancing and Projects:

1+ years of experience on Java and Web Development

Training

AWS Fundamentals – 1 month course conducted by ACEM in collaboration with Prixa Academy.

Git and GitHub – 3 days training conducted by BCA Club of Advanced College of Engineering and Management

Education

Bachelor of Computer Application (BCA)
Tribhuvan University — Kathmandu, Nepal
Expected Graduation: February 2027

Interests

Software Development | Network Systems
Cloud Computing | AI ML