

# Aayus Karki

Full-Stack Developer

📍 Biratnagar, Nepal

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🌐 LinkedIn

🐙 GitHub

## Career Objective

Final-semester BSc CSIT student seeking opportunities to deliver innovative and scalable web solutions. Proficient in full-stack development with expertise in React, Node.js, Express, MongoDB, PostgreSQL, and Socket.IO. Committed to contributing to team success and advancing technical skills in a professional setting.

## Education

**Bachelor of Science in Computer Science and Information Technology**

2021 – Present

AIMS College, Biratnagar, Nepal

- Final-semester student with a robust foundation in computer science principles and modern development methodologies.
- Key coursework: Data Structures, Algorithms, Web Development, Database Systems, Software Engineering.

## Experience

**Backend Developer Intern, Shreebyte Inc.**

Oct 2024 – Dec 2024

Biratnagar, Nepal

- Developed and maintained RESTful APIs using Node.js and Express.js, ensuring high performance and scalability.
- Optimized database operations with PostgreSQL to enhance application efficiency.
- Wrote clean, maintainable server-side code, adhering to industry best practices and contributing to code reviews.
- Collaborated with a development team to deliver high-quality solutions within project timelines.

**Freelance Backend Developer, Mountemart E-Commerce**

Dec 2024 – Feb 2025

- Architected and implemented backend systems for an e-commerce platform.
- Built efficient RESTful APIs using Node.js, Express, and MongoDB for seamless frontend integration.
- Worked closely with a team to ensure robust system performance and a cohesive user experience.

## Technical Skills

- **Frontend Development:** React, Redux Toolkit, JavaScript, CSS3, TailwindCSS, HTML5
- **Backend Development:** Node.js, Express.js, Socket.IO, JWT Authentication, RESTful APIs
- **Databases:** MongoDB, PostgreSQL, SQL, Database Design
- **Tools & Technologies:** Git, GitHub, Docker, VS Code, API Testing, Redis, BullMQ

## Projects

### VibeStream

GitHub

Video-sharing platform enabling users to upload, view, like, comment, subscribe, and unsubscribe with real-time interaction.

- Engineered a scalable backend with RESTful APIs and real-time updates using Socket.IO.
- Implemented video upload and streaming with Cloudinary for efficient media handling.
- Technologies: React, Node.js, Express, MongoDB, Socket.IO, Cloudinary

### Anomaly Detection System

GitHub

Real-time anomaly detection platform leveraging Isolation Forest, KNN, and PCA algorithms for data stream analysis.

- Developed predictive analytics and a comprehensive dashboard for effective data visualization.
- Technologies: React, Node.js, Express, PostgreSQL, Socket.IO, Chart.js

### Full-Stack E-Commerce Platform

GitHub

Comprehensive e-commerce solution with user authentication, product catalog, shopping cart, and Esewa payment integration.

- Collaborated on a group project, adhering to agile methodologies and modern development practices.
- Technologies: React, Node.js, Express, PostgreSQL, JWT

## Additional Information

- **Availability:** Open to internships, entry-level roles, or freelance projects
- **Interests:** Scalable backend systems, Frontend Development, open-source contributions