

Asmi Adhikari

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Enthusiastic Computer Engineer passionate about software development. Looking to apply technical and collaborative skills in a dynamic tech environment.

Education

Himalaya College of Engineering, Tribhuvan University, Lalitpur *2021–2025*
Bachelor of Computer Engineering
Recipient of Semester Scholarship for Academic Excellence

Experience

Freelance Developer *2026 – Present*
Self-Employed

- Developed and customized WordPress websites using PHP, HTML, CSS, and JavaScript based on client requirements.
- Built custom WordPress themes and implemented custom post types, taxonomies, and dynamic content management features.
- Configured Docker-based local development environments and managed MySQL databases for WordPress projects.
- Developed responsive, SEO-friendly interfaces and collaborated directly with clients to translate business requirements into functional web solutions.

Intuji

Backend Intern *August 2025 – December 2025*

- Developed backend APIs using **PHP (Laravel)** and containerized applications with **Docker** for efficient development and deployment.
- Designed and managed relational databases with **PostgreSQL**, ensuring data consistency and optimized query performance.
- Built a **Family Tree management system** from scratch using pure PHP by creating a lightweight custom framework and implementing the **Nested Set Model** for hierarchical data storage.
- Created a **Stock Market Simulation** platform enabling users to buy and sell virtual stocks, incorporating transaction logic, balance updates, and data persistence.
- Worked in a collaborative environment.

Projects

Anna Maitri – Food Donation App - Github link

- Designed and developed a **MERN stack** platform that connects restaurants/donors with NGOs and recipients.
- Implemented **JWT-based authentication** for secure sign-up/login and role-based access.
- Enabled **location-based matching** to facilitate efficient food distribution.
- Built a real-time dashboard for users to manage donations and track updates.

Mental Health Discussion Platform with Sentiment Analysis - Github link

- Developed a **Django-based web platform** to facilitate mental health discussions.
- Integrated a **Naive Bayes** model to analyze sentiment of user posts.

Textless Speech-to-Speech Translation with Voice Preservation

- Utilized **HuBERT** for speech unit extraction and **EnCodec** for synthesis.
- Trained a **transformer model** to translate Nepali speech to English discrete units.
- Focused on preserving speaker voice and emotion in real-time translation.

Technical Skills

Languages: PHP, JavaScript, Python, C++, C

Frameworks: Laravel, Express.js, Node.js, Django

Version Control & Tools: Docker, Git, GitHub, Postman

Databases: PostgreSQL, MySQL, MongoDB

Web Development: MERN Stack, Django, Laravel, TypeScript, HTML, CSS, Tailwind

Leadership & Involvement

HECC Club Member

2023–2025

Contributed to tech events and workshops on campus.

Coordinator, University Exhibition Fest

2023

Organized and managed logistics for a tech exhibition with 300+ attendees.

Participant, Semicolon Hackathon

2022

Built a web application using the MERN Stack where users can complain to local government about local issues.