

# Arpan Karki

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## SUMMARY

Full Stack Developer (MERN) specializing in AI-integrated web applications with a focus on solving real-world problems. Recently graduated with BSc. (Hons) in Computing and experienced in developing e-commerce platforms, management systems, and healthcare applications. Active participant in hackathons and tech community volunteer work, seeking opportunities to contribute technical skills in a dynamic development environment.

## EXPERIENCE

### Backend Intern, ING Skill Academy, Kathmandu, Nepal

Jul 2024 — Sep 2024

Duration: 3 Months 07/2024 - 09/2024 Kathmandu

- Contributed to full-stack web development projects using React, Node.js, and MongoDB.
- Participated in team meetings, code reviews, and agile workflows.
- Gained hands-on experience with Git version control, APIs, and deployment.

## EDUCATION

### London Metropolitan University, Itahari, Nepal - BSc. (Hons) Computing

Mar 2023 — Oct 2025

### Kanchanjunga English School, Jhapa, Nepal - Higher Secondary Education (+2)

Mar 2020 — Jul 2022

## SKILLS

**Programming Languages** : JavaScript, TypeScript, Python, Java

**Frameworks & Libraries** : React.js, Next.js, Node.js, Express.js, HTML5, CSS3, Bootstrap, Tailwind CSS

**Databases** : MongoDB, MySQL, PostgreSQL

**Tools & Platforms** : Git, GitHub, Docker, VS Code, Figma, Trello, Jira, Notion, REST APIs, JWT, Stripe, Socket.io, AWS (Foundations)

**Languages** : English, Nepali

## PROJECTS

### Mental Health & Support Platform

- Developed comprehensive platform connecting users with licensed psychologists for mental health support
- Built secure video calling and real-time messaging system for therapy sessions and consultations
- Implemented mood tracking functionality with surveys and progress monitoring features
- Created personalized content recommendation system based on user needs and preferences
- Designed secure user authentication with privacy-focused data protection for sensitive health information

### Cybersecurity CTF Learning Platform

- Developed Capture The Flag platform for cybersecurity challenges and competitions
- Implemented multiple challenge categories including web security, cryptography, and forensics
- Built real-time scoring system with automatic challenge validation and point allocation
- Created dynamic leaderboards displaying participant rankings and competition progress
- Designed user-friendly interface for challenge navigation and submission tracking

### TechHaven - Laptop E-commerce Store

- Developed e-commerce platform specializing in laptop sales with premium product selection
- Implemented product filtering and search functionality for enhanced user experience
- Built secure user authentication system with registration and account management
- Created shopping cart with add, remove, and checkout capabilities
- Designed responsive interface for optimal experience across all devices

### Annatripti - AI-Powered Agricultural Platform, Hackathon Project - Itahari International College

- Developed an AI-driven platform connecting farmers directly with buyers, eliminating middleman costs and increasing farmer profits
- Implemented machine learning algorithms for soil disease detection using image recognition technology
- Built full-stack solution using MERN stack with integrated AI/ML capabilities for agricultural diagnostics
- Collaborated with cross-functional team under tight deadlines to deliver functional prototype
- Addressed real-world agricultural challenges affecting local farming communities

### Hotel Management System

- Developed hotel booking platform with reservation and room availability management
- Built automated billing system with invoice generation for guest payments

- Created customer portal for bookings and admin dashboard for staff operations
- Implemented room management system tracking occupancy and availability status
- Designed staff coordination features for task assignment and shift management

**ORGANISATIONS**

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**Event Coordinator & Technical Representative, ING Skill Academy - College Outreach Program, Kathmandu** **Jul 2024 — Sep 2024**

Visited multiple colleges across Kathmandu to promote technical education and career opportunities. Conducted technical workshops and seminars on MERN stack development for students. Represented ING Skill Academy at various college events and career fairs. Facilitated industry-academia collaboration through networking events. Assisted in event planning and execution for educational outreach programs.

**Volunteer Coordinator, Itahari International College Job Fair, Kathmandu** **Jan 2024 — May 2024**

Coordinated multi-college participation in career fair events Dulari, Morang. Facilitated networking opportunities between students and potential employers. Assisted in event logistics and student guidance during job fair activities.