Arpan Karki

Software Developer

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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.

Skills

TypeScript • React • Next.js • Docker • Postman • MongoDB • Node.js • JavaScript

Work Experience

Software Developer Internship
Jul 2024 – Sep 2024 • 2 mos

ING Skill Academy • Full-time

Kathmandu, Nepal

Technologies: React • JavaScript • Redux • Docker

Achievements & Responsibilities:

- Contributed to full-stack web development projects using React, Node.js, and MongoDB.
- Collaborated in team meetings, code reviews, and agile workflows
- Gained hands-on experience with Git version control, REST APIs, and deployment
- Assisted in building and maintaining responsive front-end components with React.
- Supported back-end API development and database integration with Node.js and MongoDB.
- Helped troubleshoot bugs and optimize features in live applications.
- Deployed and tested web applications on cloud platforms.

Event Coordinator & Technical Representative, ING Skill Academy
Jan 2022 – Apr 2022 • 3 mos

ING Skill Academy • Internship

Kathmandu, Nepal

Achievements & Responsibilities:

- Led on-campus event planning and promotion to boost student sign-ups.
- Acted as the main tech point of contact, solving setup and IT issues during sessions.
- Delivered clear explanations of program benefits, increasing student engagement and participation.
- Coordinated between students, faculty, and the ING team to ensure smooth event execution.
- Designed and distributed digital and print promotional materials, increasing event visibility.
- Managed event budgets and resources, keeping operations efficient and on track.
- Gathered post-event feedback to identify areas for improvement in future outreach.
- Trained student volunteers on event roles and technical support procedures.

Volunteer Coordinator, Itahari International College Job Fair

Jun 2021 – Sep 2021 • 3 mos

Itahari International College • Part-time

Dulari,Morang, Nepal

Achievements & Responsibilities:

- Managed volunteer teams to handle registration, logistics, and attendee assistance.
- Coordinated with companies, vendors, and college staff to ensure smooth event flow.
- Solved on-the-day issues quickly to keep schedules and services running smoothly.
- Helped increase fair attendance and engagement through effective volunteer support.
- Created and managed the volunteer schedule to ensure coverage for all event zones.
- Trained volunteers on their roles, company information, and key fair policies.
- Conducted post-event debriefings with volunteers to gather feedback for improvement.
- Set up and monitored the fair's layout and company booths for a professional experience.

Projects

Mental Health & Support Platform

Jan 2024 – Dec 2025 • 1 yr 11 mos

Technologies: Next.js • MongoDB • Docker • Postman

- 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

Jul 2023 – Oct 2024 • 1 yr 3 mos

5 coworkers

Technologies: React • Node.js • Redux • Docker • MongoDB

- 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

Sep 2024 – Oct 2024 • 1 mo

Technologies: React • Node.js • MongoDB

- 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
- Designed shopping cart with add, remove, and checkout capabilities
- Designed responsive interface for optimal experience across all devices.

Annatripti AI-Powered Agricultural Platform Jul 2023 – Jul 2023 •

5 coworkers

Technologies: Node.js • React • MongoDB • Express.js

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 Jun 2024 – Feb 2025 • 8 mos

Technologies: React • Node.js • Express.js • MongoDB

- 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.

Education

Bachelor's degree: Computing Mar 2022 – Jan 2025 • 2 yrs 10 mos

London Metropolitan University, Itahari International College, Nepal

Itahari, Nepal

Grade/GPA: Upper Second Class Honours

BSc. (Hons) in Computing

Higher Secondary Education level: Computer Science Jun 2019 – Sep 2021 • 2 yrs 3 mos

Kanchanjunga English School, Jhapa

Jhapa, Nepal

Grade/GPA: 3.04

Higher Secondary Education level

Secondary Education level: School Apr 2009 – Jul 2018 • 9 yrs 3 mos

Shree Bhanu Jana Secondary School, Taplejung

Taplejung, Nepal

Grade/GPA: 3.22

Secondary Education level

Certifications & Awards

AWS Academy Cloud Foundations - AWS Certified Cloud Practitioner May 2022

Cloud Computing - Google Cloud Digital Leader (Entry-level) Nov 2023

Networking - Cisco Certified Network Associate (CCNA) Sep 2023

Languages

English (Limited working proficiency)