Aaditya Karki

📍 Nepal

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Professional Summary

Passionate and self-motivated **Web Developer & Software Engineer** with expertise in frontend and backend development. Skilled in building responsive, modern web applications, chat applications, and IoT solutions. Adept at problem-solving, debugging, and delivering high-quality code. Currently exploring **AI chatbot hardware development** and **bug bounty hunting** on HackerOne.

Skills

Programming & Development

- Frontend: HTML, CSS, JavaScript, React.js, TailwindCSS
- Backend: Node.js, Express.js
- Databases: MongoDB, Firebase, SQL
- Tools & Technologies: Git, REST APIs, Firebase, Arduino, ESP8266, ESP32, Raspberry Pi, EmailJS

Other Technical Skills

- AI Chatbot Hardware Development (ESP8266, Arduino Uno, KY037 Mic Module, CA8403 Amplifier, SD card module, HC-05 Bluetooth Module)
- IoT Projects (Arduino Uno, ESP32, Raspberry Pi, NodeMCU)

- Robotics (Arduino-based robots)
- Ethical Hacking & Cybersecurity (Bug Bounty Hunting on HackerOne)
- Content Writing & Freelancing (Upwork)

Projects

1. ChatAnon - Modern Chat Application

A real-time messaging app with login/signup functionality.
Features include profile picture uploads, chat clearing, and disconnect options.
Tech Stack: React.js, Node.js, Firebase.

2. School Website

Developed a professional website for school & colleges.
Ensured a user-friendly UI with fast performance.
Tech Stack: HTML, CSS, JavaScript.

3. AadityaFoods - Food Delivery Website

Created a fully functional food ordering website.
Implemented responsive design and optimized UI/UX.
Tech Stack: HTML, CSS, JavaScript.
URL: https://aadityakarki007.github.io/Aadityafoods/

4. AI Chatbot Assistant Hardware (In Progress)

Building a voice assistant hardware using NodeMCU and Arduino.
Integrating microphone and amplifier for voice input/output.
Tech Stack: Arduino, ESP8266, CA8403 Amplifier, KY037 Mic Module.

5. API Integration for Weather Forecasting App

Developed a weather forecasting app using an external weather API.
Integrated live data fetching and display of current weather conditions based on user input location.
Tech Stack: React.js, Node.js, OpenWeather API, CSS.

6. E-commerce Website with Payment Gateway Integration

Built a fully functional e-commerce website with product listing, shopping cart, and checkout functionality.
Integrated a payment gateway (e.g., Stripe) for secure transactions.
Tech Stack: HTML, CSS, JavaScript, Node.js, MongoDB, Stripe API.

7. Blog Website with User Authentication

Developed a blogging platform with user authentication, allowing users to create, read, update, and delete posts.
Tech Stack: Node.js, Express.js, MongoDB, Passport.js (for authentication), EJS.

8. Online Shopping Website (In Progress)

Developed a complete online shopping platform with product catalog, cart, and checkout system.
Integrated multiple payment options and real-time stock updates.
Tech Stack: React.js, Node.js, MongoDB, Stripe API, CSS.

9. IoT Home Automation with Raspberry Pi

Developed a home automation system using Raspberry Pi to control lights, fans, and other appliances remotely via a web app.
Integrated Google Firebase for real-time data syncing.
Tech Stack: Raspberry Pi, Node.js, Firebase, HTML, CSS.

10. Smart Garden with IoT (Using ESP32 and Arduino)

Created a smart garden system using sensors (moisture, temperature, humidity) to monitor soil conditions and control irrigation remotely.
Data is displayed on a web interface.
Tech Stack: ESP32, Arduino, DHT11, MQTT, Firebase.

11. Automated Weather Station with Arduino and ESP8266

Built a weather station using Arduino Uno, ESP8266 for Wi-Fi connectivity, and sensors (temperature, humidity, pressure).

Data is displayed on a cloud-based dashboard and updated in real-time.
Tech Stack: Arduino Uno, ESP8266, DHT22, BME280, ThingSpeak API.

12. Line Following Robot (Using Arduino)

Designed and developed a line-following robot that autonomously follows a track using IR sensors.
Utilized motor drivers and sensor-based control mechanisms.
Tech Stack: Arduino Uno, L298N motor driver, IR sensors.

Education

Kathmandu Model College

Current Student
Studying Science & Technology

Certifications & Achievements

Bug Bounty Hunting Beginner (HackerOne) – Exploring security vulnerabilities.
Web Development Projects – Successfully built multiple web applications.

Work & Freelancing Experience

Content Writer (Upwork) – Creating engaging tech and programming-related content.
Freelance Web Developer – Developing responsive websites for clients.

Languages

English (Fluent)
Nepali (Native)
Hindi (Conversational)

Contact & Socials

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- 🌐 Portfolio: https://aadityakarki007.github.io/Portfolio/
- 🔗 GitHub: https://github.com/aadityakarki007
- 📝 Upwork: https://www.upwork.com/freelancers/~014f92e58420cc929e

💡 *Seeking opportunities in web development, cybersecurity, IoT, robotics, and AI-driven projects. Open to freelance and collaboration!*