

Nijiya Maharjan

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SUMMARY

Software Engineer with experience building scalable web applications using React, Next.js, and TypeScript. Skilled in developing responsive user interfaces, reusable component systems, and integrating APIs to deliver reliable product features. Experienced across the stack with Node.js and FastAPI, enabling seamless frontend-backend integration and real-time user experiences.

EXPERIENCE

Fullstack Developer

February 2025 – Present

The Drive AI

Remote

- Developed responsive frontend features using React and Next.js while integrating backend APIs built with Node.js and Express to deliver end-to-end product functionality.
- Contributed to refactoring application components across UI, API, and database layers to align system architecture with updated business logic requirements.
- Implemented real-time user interfaces using WebSockets and streaming APIs, enabling live messaging and dynamic UI updates.
- Integrated AI-driven workflows into the application UI by implementing frontend features that interacted with custom backend tools and APIs.
- Implemented UI features in an Electron desktop application, including authentication and paywall flows connected to backend services.
- Worked on a Chrome Extension that integrated with core platform APIs to extend platform functionality into the browser.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Frontend: React.js, Next.js

Backend: Node.js, Express.js, FastAPI, WebSockets

AI & Automation: LLM Agent Workflows, Model Context Protocol (MCP), Composio, Puppeteer

Databases: MongoDB, PostgreSQL, MySQL, Prisma ORM

Tools: Git, Postman, VS Code

EDUCATION

Pulchowk Campus, Institute of Engineering

Pulchowk, Lalitpur

Bachelor in Computer Engineering

May 2022 – Present

PROJECTS

Representative Portal (Freelance) *(Live Demo)* | *React, Next.js, MapLibre, D3.js, Tailwind CSS*

- Developed an interactive map-based portal for Nepal's parliamentary constituencies using MapLibre.
- Implemented search functionality, dynamic data display, and D3.js circle pack visualizations for member distributions.

AI-Augmented SAST and DAST (Major Project, Ongoing) | *Electron, Node.js, FastAPI, Puppeteer*

- Built a cross-platform Electron app for AI-assisted static and dynamic security testing.
- Developed SAST engine and DAST scanner with Puppeteer automation, including data cleaning, normalization, and preprocessing pipelines.

- Integrated a FastAPI backend for model inference and scan updates.

Climate Visualizer (*GitHub*) | *React, Node.js, Express, PostgreSQL, Leaflet, Chart.js*

- Developed a geospatial web platform to visualize and compare climate data across Nepalese districts.
- Built interactive geospatial UI components using React, Leaflet, and Chart.js to visualize climate data across Nepalese districts.
- Optimized user interaction with dynamic filtering, district selection, and hover tooltips for detailed climate insights.

One Image Everyday (*GitHub*) | *React, Node.js, Express, MongoDB*

- Built a full-stack image journaling platform with daily uploads and caption tracking.
- Implemented automated time-lapse video generation using FFmpeg from user-uploaded images.

PUBLICATIONS

A Comparative Analysis of Transformer-based Models for Abstractive and Extractive Long Text Summarization

ICT for Intelligent Systems, Springer. DOI: 10.1007/978-981-96-8750-3_34

April 2025

CERTIFICATIONS

Developing Secure Software

Completed: July 2025

The Linux Foundation

Applied Data Science Lab

Completed: October 2024

WorldQuant University

Machine Learning Specialization

Completed: July 2024

Coursera

VOLUNTEER EXPERIENCE

Girls to Code - Mentor

December 2025

- Mentored a 2-day web development workshop covering HTML, CSS, JavaScript, and introductory Node.js through hands-on guidance.

LOCUS Software Fellowship - Mentor

July 2025

- Guided participants in core JavaScript concepts including async programming, closures, ES6+, and functional array methods.

Web Scraping with Puppeteer - Instructor

February 2025

- Co-led a workshop on Puppeteer covering automation, data extraction, DOM traversal, pagination, and anti-bot basics.