

ARPAN RIJAL

Full Stack Developer

Balkumari, Lalitpur, Nepal • [Arpan Rijal - Github.com](#) | [Arpan Rijal - LinkedIn](#) | [Portfolio – Arpan Rijal](#)

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SUMMARY

A Computer Engineering student with hands-on full stack development experience across frontend, backend, and database layers. Passionate about building real-world applications using modern web technologies. Actively building personal projects to sharpen skills in Node.js, Express, MongoDB, and MySQL with a strong focus on clean UI/UX and functional, scalable code.

TECHNICAL SKILLS

Frontend: HTML, CSS, JavaScript, TypeScript, Tailwind CSS, UI/UX Design (Figma), React Js

Backend: Node.js, Express.js, Python, C, C++

AI/ML & Data: YOLOv8, ONNX Runtime, Pandas

Databases: MySQL, MongoDB

Tools & DevOps: Git and GitHub, Docker, Postman, VS Code, WSL, Linux

PROJECTS

DRISHTI — AI-Powered Assistive Navigation (Contribution Project) [Live Demo](#) | <https://github.com/darpan-rijal/dristy-a-blind-person-helper.git>

YOLOv8n • ONNX Runtime • WebRTC • Leaflet.js • PWA • Nepali TTS

- Fine-tuned YOLOv8n on a custom Nepal-specific hazard dataset (auto-rickshaws, exposed electric poles, and other obstacles generic Western-trained models miss) and compiled it to ONNX for fully client-side inference in the browser.
- Combined WebRTC for camera access, Leaflet.js for location context, and a Nepali text-to-speech engine to deliver real-time audio guidance, packaged as a zero-server-dependency progressive web app.
- Delivered a deployable PWA that runs detection at inference speed directly on a phone browser, eliminating server latency and reducing infrastructure costs to near-zero.

Stock Price AI Predictor (Minor Project) github.com/arpanrijal/spa

Node.js • Python • Pandas • Web Scraping • AI Integration

- Built a full stack web app that scrapes stock data and sentiment scores, passes them to an AI model, and predicts next-day stock prices.
- Developed the complete frontend and backend independently; used Python and Pandas for data processing with AI-assisted learning.
- Implemented a custom web scraper to automate data collection, removing reliance on manual input.

SOOS — Quick Share App github.com/arpanrijal/soos

Node.js • Express.js • MongoDB • HTML/CSS/JS

- Designing a temporary content-sharing app to solve real classroom workflow problems — inspired by the limitations of existing tools like ssavr.com.
- Focused on simplified, intuitive UI/UX that removes unnecessary friction and confusion.

Task Tracker CLI github.com/arpanrijal/Task-Tracker-CLI

Node.js • CLI • File System

- Built a command-line task manager in Node.js demonstrating core backend logic, file I/O, and CLI argument handling.

Standard Interior Pvt. Ltd. — Figma UI Design <https://standardinterior.com.np/>

Figma

- Designed a full website UI in Figma for a real interior design client, covering layout, typography, and visual style — later used as the reference for their live website.

EDUCATION

BE. Computer — Kathford International College of Engineering and Management

Currently Pursuing • Lalitpur, Nepal

Class 12 — St. Thomas Secondary English Medium High School

Class 10 — Deepak English Medium High School

OTHER EXPERIENCE & INTERESTS

- Writing Blog Posts and Create YouTube video