

Pranjal Pokharel

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Relevant Skills

- **Programming Languages:** Rust, Python, JavaScript/Typescript, C, C++, and Go.
- **Fullstack Development:** Proficient in **Django**, **FastAPI** (backend), **React/Next.js** (frontend).
- **Databases:** Strong expertise in **PostgreSQL** and **Redis**.
- **Cloud & DevOps:** Experienced with **AWS** (EC2, ECS, Lambda, S3, RDS, DynamoDB, Cognito, Amplify).
- **Miscellaneous:** Celery, Docker, Git, GraphQL/REST, Linux, Scrappy, Terraform.

Professional Experience

- **Software Engineer (Contract)** (April 2025 - Jun 2025) at **Alpen Labs**.
 - Implemented checkpoint (L1) sync for the **Alpen client** (L2 rollup to bitcoin), functional tests, and bugs related to cli and dependency management.
- **Technical Consultant** (March 2025 - April 2025) at **Third World Nerd**.
 - Technical consultant for TWN's video on fundamentals of **bitcoin (blockchain technology)**.
- **Senior Software Engineer** (Jan 2024 - Oct 2024) at **Naamche**, contributing to their flagship product **reAlpha**.
 - Setup data pipelines and wrote geo-spatial queries (**PostGIS**) for +2M real estate records (read-write replication, triggers, materialized views, indexing, full-text search).
 - Integrated **OpenAI Assistants** for RAG pipeline, worked on exception handling, and prompt engineering.
 - Led developments in document management and ID verification (**DocuSign**), search auto-completion (**Opensearch**), performance monitoring (**Sentry**), CRM integration (**Follow Up Boss**), admin panel (**refine.dev**), data scraping pipelines, property comparison heuristic and map view, and more.
 - Onboarded interns/new hires to the existing development process and monitored their individual progress.
- **Software Engineer** (April 2023 - Dec 2023) at **Naamche**.
 - Configured multi-tenant database system (application-layer router) for **EthanAI**, deployed custom microservices for authentication, analytics, transaction processing, and data reconciliation, and wrote tests.
 - Developed a Python SDK for **Dealmaker** API (AWS Lambda deployment, token caching in DynamoDB).
 - Worked primarily on floor layout customization (rotate-resize-relocate tables using custom drag-and-drop UI), and data sync using **AWS Datastore** for an offline-first, restaurant POS web app.
 - Enhanced frontend chat interface and history panel for **Mimir**.
- **Blockchain Developer** (Jun 2022 - Mar 2023) at **iBriz.ai**.
 - Built responsive UI, monitored smart contracts, and integrated **ICONex wallet** for an sICX/ICX transfer portal.
- **Full Stack Developer** (Apr 2022 - Jun 2022) at **Ensemble Matrix**.
 - Worked on logic for signature vector extraction (canvas API), signature editor and admin panel interface.
 - Wrote a custom parser for **SAT** verification and integrated **Finacle** on the backend.

Education

Bachelor in Computer Engineering, Pulchowk Campus, IOE. Tribhuvan University [2018-2023].

Projects

- **Yudhisthira** (*Custom Blockchain*) - proof of work, P2PKH, wallet, db integration, visualizer/API, and more.
- **Guthi** (*Distributed App Development Framework*) - contributed to RPC, NTP client, collaborative whiteboard.
- **Our Rocket** - Rocket modeling using the OpenGL; model loading, lighting, skybox, camera motion, and more.
- **A Day in Pulchowk** (*top-down 2D game*) - contributed to tilemap design, asset loading, animation, and scoring.
- Other projects include **Redis implementation from scratch**, **browser extension for emoji keyboard**, and solving TSP using **particle swarm optimization**.

Community Involvement

- **Founding Member** of **IT Club Pulchowk** – managed events, social media, marketing, and graphic design.
- **Instructor** for workshops, including **Advanced C Workshop** (2021, 2022) and **Blockchain Fellowship**.