

Pranjal Pokharel - Resume

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Education

Undergraduate: Bachelor in Computer Engineering (BCT), Pulchowk Campus, IOE, Tribhuvan University [2018-2023].
Aggregate Percentage: 75.5% (out of 100%).

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, Scrapy, Terraform.

Professional Experience

- **Software Engineering Intern** (April 2025 - Jun 2025) at Alpen Labs.
 - Primarily worked on the checkpoint (L1) sync feature 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.

Personal 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.

Volunteer Experience

- **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.