PRANJAL POKHAREL

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SUMMARY

Software Engineer with **3+ years of professional experience** building scalable backend systems, data pipelines, blockchain infrastructure, and full-stack products across fintech, real estate, automation, and web3.

EXPERIENCE

Software Engineer L3, [Genese Solution](#)   **Sep 2025 - Current**
- Leading initiative to write custom Business Process Automation (BPA) on a service provisioning and management product.

Software Engineer (Contract), [Alpen Labs](#)   **April 2025 - Jun 2025**
- Implemented checkpoint (L1) sync for the [Alpen client](#) (L2 rollup to bitcoin, open source), functional tests, and fixed bugs related to CLI and dependency management.

Technical Consultant, [Third World Nerd](#)   **March 2025 - April 2025**
- Technical consultant for their video on fundamentals of bitcoin and blockchain.

Senior Software Engineer, [Naamche (ReAlpha)](#)   **Jan 2024 - Oct 2024**
- Set up 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 API (exception handling, function calling, and prompt engineering) for the website's chat assistant.
- Worked on document management and 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 more.
- Led a team of 7 backend engineers throughout multiple projects within the company.

Software Engineer, [Naamche (ReAlpha)](#)   **April 2023 - Dec 2023**
- Configured multi-tenancy for EthanAI (portfolio management application), microservices for authentication, analytics, transaction processing, and data reconciliation, and wrote tests.
- Developed a Python SDK for Dealmaker which was internally used over AWS Lambda and DynamoDB.
- Created a floor layout builder (rotate-resize-relocate tables using custom drag-and-drop UI), and worked on offline data sync using AWS Datastore for a restaurant point-of-sales app.

Blockchain Developer, [iBriz.ai (Part-Time)](#)   **June 2022 - March 2023**
- Built responsive UI, smart contracts, and integrated [ICONex](#) (web3 wallet) for sICX/ICX trade.

Full Stack Developer, [Ensemble Matrix](link)   ***April 2022 - June 2022***
- Worked on bank signature vector image extraction (canvas API) and editor UI.
- Wrote a custom parser for [Boolean Satisfiability](link) verification and integrated [Finacle](link).

EDUCATION

[Bachelor in Computer Engineering](link)   ***Nov 2018 - Apr 2023***
Pulchowk Campus, Institute of Engineering, Tribhuvan University, Nepal

SKILLS

- **Programming Languages:** Rust, Python, JavaScript/Typescript, C, C++, and Go.
- **Fullstack Development:** Django, FastAPI (backend), React/Next.js (frontend).
- **Databases:** Strong expertise in PostgreSQL and Redis.
- **AWS (Cloud):** EC2, Lambda, S3, RDS, DynamoDB, Cognito, Amplify, and more.
- **Miscellaneous:** Celery, Docker, Git, Linux, Pandas, Numpy, Scrapy.

PROJECTS

- [Yudhisthira (Custom Blockchain)](link) - proof of work, P2PKH, wallet, db integration, visualizer/API, and more.
- [Guthi: Distributed Framework](link) - contributed to RPC, NTP client, and collaborative whiteboard.
- [Our Rocket](link) - Rocket modeling (OpenGL), lighting, skybox, camera motion, and more.
- Other projects include,
    - [Redis implementation](link) from scratch,
    - [Browser extension](link) for emoji keyboard,
    - Solving Traveling Salesman Problem (TSP) using [particle swarm optimization](link).

COMMUNITY WORK

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