

PRANJAL POKHAREL

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SUMMARY

Senior Backend Engineer with **3+ years of experience** designing backend systems, data pipelines, and performance-critical systems. Experienced in integrating **LLM-powered features** with a strong focus on reliability, error handling, and system design. Comfortable working across the stack, driving architecture decisions, and collaborating cross-functionally.

EXPERIENCE

Software Engineer L3, Genese Solution	Oct 2025 - Current
<ul style="list-style-type: none">Implemented serverless backend architecture for financial data ingestion and querying pipelines, processing data from Excel files into Athena-backed datasets.Currently developing ETL pipelines for a financial reconciliation system with batch processing and error handling.	
Software Engineer (Contract-Internship), Alpen Labs	April 2025 - Jun 2025
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Technical consultant for their video on fundamentals of bitcoin (15k+ views).	
Senior Software Engineer, Naamche (ReAlpha)	Jan 2024 - Nov 2024
<ul style="list-style-type: none">Led backend architecture and delivery for multiple products, heading a team of 7 backend engineers and owning system design decisions.Designed and optimized PostgreSQL/PostGIS-backed data pipelines for 2M+ real estate records, reducing P95 API latency from >1s to ~300ms via indexing, materialized views, read replicas, triggers, and query refactoring.Developed backend systems for document management and verification (DocuSign), search and auto-complete (OpenSearch), CRM integrations, and admin panel.Owned backend observability using Sentry, logging, and performance monitoring.Worked closely with product managers, designers, and stakeholders to translate business requirements into scalable backend systems.	
Software Engineer, Naamche (ReAlpha)	April 2023 - Dec 2023
<ul style="list-style-type: none">Configured multi-tenancy for a portfolio management application and developed microservices for authentication, analytics, transaction processing, and reconciliation.Developed a serverless Python SDK for Dealmaker (internal use within the company).Created a floor layout builder (rotate-resize-relocate tables using custom drag-and-drop UI), and configured offline data sync using AWS Datastore for a restaurant point-of-sales app.	

Blockchain Developer, iBrix.ai (Part-Time)**June 2022 - March 2023**

- Developed backend-integrated smart contract features and supporting APIs.
- Built responsive UI components and integrated a [web3 wallet](#) for trading workflow.

SKILLS

- **Programming Languages:** Rust, Python, JavaScript/TypeScript, C, C++, and Go.
- **Fullstack Development:** Django, FastAPI (backend), React/Next.js (frontend).
- **AI/LLM Integration:** OpenAI Assistants API, MCP, Tool Calling, Prompt Engineering.
- **Databases:** Strong expertise in PostgreSQL and Redis.
- **Cloud & Infra:** AWS (EC2, Lambda, S3, RDS, DynamoDB, Cognito, Amplify, Athena), Docker, Linux, Git.
- **Miscellaneous:** Celery, Docker, Git, Linux, OpenAI, Pandas, Numpy, Scrapy, Jira.

EDUCATION

Bachelor in Computer Engineering**Nov 2018 - Apr 2023**

Pulchowk Campus, Institute of Engineering, Tribhuvan University, Nepal

PROJECTS

- [Yudhisthira \(Custom Blockchain\)](#) - Built a PoW blockchain with wallet, P2PKH, database integration, API layer, and visualizer.
- [Guthi: Distributed Framework](#) - contributed to RPC, NTP client, and collaborative whiteboard.
- [Redis From Scratch](#) - Implemented Redis-compatible functionality including basic key-value store, master-slave replication, transactions, and persistence.
- Other projects include [browser extension](#) for emoji keyboard, and solving Traveling Salesman Problem (TSP) using [particle swarm optimization](#).

COMMUNITY WORK

- Founding Member, [IT Club Pulchowk](#)
- Instructor: Advanced C Workshop ([2021](#), [2022](#)), [Blockchain Fellowship 2022](#).