

# Swopnil Parajuli

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## EXPERIENCE

### Senior Software Engineer

May 2024 – Present

*Twine Labs*

*Wilmington, DE*

- Led the end to end architecture and implementation of a zk based validity rollup (Twine) which settles it's state on multiple L1 chains (Ethereum and Solana) and Celestia as the DA layer.
- Led the R&D into a full Ethereum consensus client prover and for private transactions on Twine.
- Conducted the development of multiple core zk-prover applications viz. twine's execution prover, Ethereum's consensus prover and Solana's consensus prover.
- Led the development of an orchestrator component for managing and controlling the zk-prover applications on different dedicated GPU instances.
- Principal contributor in the architecture required for end to end system for both settlement and verifiable bridging flow.

### Blockchain Developer

Sep 2021 – Apr 2024

*Venture23 Inc*

*Sheridan, WY*

- Led the R&D into bringing Verifiable Randomness in ICON blockchain using threshold signature scheme.
- Co-led the bridge team in multi-sig bridge from ALEO-Ethereum which is also the canonical bridge for ALEO.
- Led the bridge Tezos-ICON bridge project overseeing the maintenance and support for the whole project.
- Led the project to migrate all the critical legacy code bases of ICON blockchain's Contribution Proposal System(CPS).

### Blockchain Intern

Feb 2021 – Aug 2021

*Techflow Space*

*Kathmandu, NP*

- Led and conducted blockchain workshops in different events.
- Led the project to write end to end testing suite for Contribuuton Proposal System(CPS) on ICON blockchain

## PROJECTS

- Kachhya (Online learning platform Android app): Built an android app, Kachha. Handled student attendance, sharing reading resources etc. Learned about mobile app development and online database systems like firebase.
- Kharcha (Expenses management Android app)
- Sign Language Interpreter: Built a machine learning model that translated Nepali sign language to nepali text.

## TECHNICAL SKILLS

**Languages:** Rust, Golang, Solidity, Bash, Python, Java

**Blockchains:** EVM-based, Solana, TEZOS, ICON

**ZKP:** SP1, RISC0

**Data & Infrastructure:** SQL, NoSQL, Redis, Message Queues

**Developer Tools:** Git, Docker, Github, Prometheus, Grafana, k9s

## EDUCATION

### Kathmandu University

Kathmandu, NP

*Bachelor in Computer Engineering*

*Nov. 2017 – April 2022*

### Trinity International College

Kathmandu, NP

*High School, Science Major*

*June. 2015 – March 2017*