

# Debendra Oli

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📍 Nepal

Blockchain & DevSecOps Engineer with 8+ years of experience designing scalable infrastructure, building cross-chain communication protocols, and deploying cloud-native systems. Core contributor to ICON's IBC-Integration and Centralized Relay. GitHub Arctic Code Vault Contributor.

## EXPERIENCE

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### Blockchain & DevSecOps Engineer — Ibriz

Sep 2021 – Present

- Architected and developed the **Centralized Relay** — a fault-tolerant cross-chain relayer supporting EVM, Cosmos, and ICON networks (Go).
- Core contributor to **IBC-Integration**, enabling Inter-Blockchain Communication for ICON using Rust and CosmWasm smart contracts.
- Contributed to **SODAX Solver**, a cross-chain intent solver and execution layer spanning EVM and non-EVM networks.
- Implemented **Stellar** chain support for solver workflows, including Soroban/SoroSwap execution paths, xAssets bridge flows, and resilient RPC handling for non-EVM transaction execution.
- Added **Aleo** chain integration to extend solver chain coverage and strengthen cross-chain execution across emerging ecosystems.
- Built end-to-end testing frameworks for blockchain interoperability protocols across multiple chain architectures.
- Managed cloud infrastructure with Terraform, Ansible, and CI/CD pipelines for rapid, reliable deployments.
- Developed smart contracts (Solidity, CosmWasm) and Web3 tooling for cross-chain decentralized applications.
- Contributed to **Verulink** — cross-chain bridge infrastructure for the Aleo blockchain with zero-knowledge proofs.

### Software & DevSecOps Engineer — Innovatetech

May 2019 – May 2023

- Led infrastructure and backend engineering for **mysecondTeacher**, an ed-tech platform serving millions of users.
- Designed custom auto-scaling solutions for real-time communication systems handling millions of concurrent connections.
- **Reduced cloud infrastructure costs by 25%** through resource optimization and intelligent scaling strategies.
- Implemented Infrastructure-as-Code using Terraform and Ansible across multi-region AWS deployments.
- Built and maintained CI/CD pipelines for rapid feature delivery with zero-downtime deployments.
- Mentored junior developers and led technical design reviews across cross-functional teams.
- Developed disaster recovery plans and conducted regular failover drills.

### Software & DevSecOps Engineer — Legalfiber

Jan 2021 – Mar 2022

- Built the platform infrastructure for a legal-tech startup connecting clients with lawyers on-demand.

- Designed and developed full-stack web applications following legal compliance guidelines.
- Deployed highly available services on Kubernetes (EKS) with automated scaling and monitoring.
- Collaborated directly with clients and cross-functional teams to deliver solutions on schedule.

### Software Developer — Tekkon Technologies

May 2018 – May 2019

- Built concurrent data processing and bot systems for large-scale data collection at **Opaxe**.
- Implemented OCR pipelines using Amazon Textract and custom open-source AI models.
- Managed database administration and led migrations across storage services.

### Netsuite Consultant — Raindrop Inc

Jun 2017 – Nov 2019

- Implemented custom ERP solutions on Netsuite for enterprise clients.
- Developed integrations and automation workflows for business processes.

### Systems & Software Developer — Uptechsys

Feb 2017 – Jul 2017

- Lead developer for multiple product lines. Established CI/CD pipelines and managed database and server infrastructure.

## TECHNICAL SKILLS

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Go

Rust

Python

JavaScript

Lua

Solidity

CosmWasm

Terraform

Kubernetes

Docker

AWS

Ansible

Helm

Packer

CI/CD

React

Node.js

PostgreSQL

Redis

Nginx

## OPEN SOURCE & NOTABLE PROJECTS

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### IBC-Integration — [github.com/icon-project/IBC-Integration](https://github.com/icon-project/IBC-Integration)

Enabling the Inter-Blockchain Communication protocol for the ICON network. Built with Rust, CosmWasm, and Solidity to bridge Cosmos and EVM ecosystems. ★17

### Centralized Relay — [github.com/icon-project/centralized-relay](https://github.com/icon-project/centralized-relay)

A fault-tolerant cross-chain relay written in Go, supporting multiple blockchain networks with automatic recovery and monitoring. ★7

### Jitsi Meet on Docker — [github.com/jitsi/docker-jitsi-meet](https://github.com/jitsi/docker-jitsi-meet)

Containerized deployment of Jitsi Meet video conferencing with custom Lua modules for scalable real-time communication. ★3.5k

### Verulink — [github.com/venture23-aleo/verulink](https://github.com/venture23-aleo/verulink)

Cross-chain bridge infrastructure for the Aleo blockchain, enabling private asset transfers across networks using zero-knowledge proofs.

## ACHIEVEMENTS

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- **GitHub Arctic Code Vault Contributor** — Code preserved for future generations as part of the GitHub Archive Program

- **Pull Shark x3** — Recognized for merging pull requests across multiple open-source projects
- **Pair Extraordinaire x2** — Recognized for co-authored commits in collaborative development
- **25% Cloud Cost Reduction** — Architected infrastructure optimizations reducing monthly cloud spend while improving reliability

## ORGANIZATIONS

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- ICON Project — Blockchain interoperability
- Venture23-Aleo — Zero-knowledge blockchain infrastructure
- ProvableHQ — Privacy-focused blockchain development