

# ASHISH REGMI

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## EXPERIENCE

### ProphecyJimpsons

Lead Developer

Remote

May 2024 - Present

- Developed a multi-chain predictive NFT platform integrating Solana, Polygon, StarkNet, and Base.
- Implemented AI-powered verification and art generation for NFTs.
- Designed and deployed Solana-based SPL tokens and compressed NFTs (cNFTs).
- Led the development of a Telegram-based gaming ecosystem and AI-driven NFT generators.

### Bitmosys Inc.

Senior Backend Engineer

Remote

Sep 2022 - Dec 2023

- Developed and maintained high-quality codebases using Python and Django.
- Managed PostgreSQL databases and integrated third-party APIs.
- Engaged in effective communication with clients and stakeholders.

### Revolent Group

Salesforce Consultant / Software Developer

Toronto, ON

Aug 2021 - Sep 2022

- Automated processes in Salesforce, enhancing organizational efficiency.
- Developed user interfaces, reports, and dashboards to support business decisions.

### Shaw Communications

Technical Operations Specialist & Support

Brantford, ON

May 2019 - Aug 2020

- Resolved technical issues for internet and cable TV services using ServiceNow.
- Updated Customer Premise Equipment to ensure optimal performance.

### Gamerlink

Software Developer

Waterloo, ON

Aug 2018 - Dec 2018

- Revised and modernized codebases to enhance functionality.
- Built a customer support portal using ReactJS, improving overall customer service.

## SKILLS

Blockchain & Web3:	Solidity, Smart Contracts, Ethereum, NFTs, Ethers.js, Viem, Solana, Web3.js
Privacy & Security:	Homomorphic Encryption, Zero-Knowledge Proofs (zk-SNARKs), TEE
Frontend Development:	React, Next.js, TypeScript, Wallet Connectivity, HTML5, CSS3, Responsive Design, SEO
Backend Development:	Python, Node.js, Serverless Functions, FastAPI, Django, GraphQL, RESTful APIs
Artificial Intelligence:	Neural Networks, Machine Learning, LLM Train, Predictive Private AI Analytics
DevOps & Cloud:	Git, GitHub Actions, CI/CD, Docker, AWS, Vercel, Netlify, Google Cloud, Heroku
Tools & Frameworks:	Remix IDE, WebAssembly, OpenZeppelin, MetaMask, Ganache, Telegram API, OpenFHE
Programming Languages:	Python, Rust, Java, TypeScript, Solidity
Soft Skills:	Problem-solving, Technical Communication, Team Collaboration, Project Management

## PROJECTS

### AI Secure Fund DAO Blockchain, Homomorphic Encryption, Marlin TEE, AI

Lead Developer on a privacy-first voting system using homomorphic encryption, integrating Marlin TEE for secure vote processing and AI-driven governance insights.

### Himalaya ZkBarrier Privacy, WebAssembly, zk-SNARKs, Homomorphic Encryption

Architected a privacy-preserving data storage solution with client-side WebAssembly processing, zero-knowledge proofs for data verification, and homomorphic encryption for secure deduplication.

### P2PLend Lending, Blockchain, GraphQL, World ID API

Developed a secure lending platform connecting borrowers directly with lenders, incorporating World ID API for identity verification and a custom rate calculation algorithm with GraphQL-based communication.

### Sunya Security, Starknet, Machine Learning, Smart Contracts

Designed and trained machine learning models to detect vulnerabilities in Starknet contracts; developed automated tooling for smart contract security analysis and integrated meta-transaction functionality.

**EAST for LLMs** *AI, Sparse Training, LLM, Optimization*

Researched and implemented Extreme Adaptive Sparse Training (EAST) achieving 99.99% sparsity while maintaining model performance through cyclic sparsity and dynamic ReLU phasing.

**The Timeless Tutor** *Blockchain, AI, Education*

A Web3 and AI-powered learning platform integrating blockchain for secure, decentralized education.

**ProphecyJimpsons** *NFT, AI, Blockchain, Solana, Polygon, StarkNet, Base*

Multi-chain predictive NFT platform with AI-powered verification and art generation integrated with Solana, Polygon, StarkNet, and Base.

**Solana Blockchain Transaction Monitor** *Solana, Rust, WebSocket*

Real-time monitoring of transactions on the Solana blockchain using Rust and WebSocket.

**Quote Generation and Approval System** *Automation, Insurance, Quote Generation*

Developed for Manulife to streamline and enhance the insurance quote generation and approval process.

**Ayurveda Foundation Blood App** *Mobile App, Communication, Healthcare*

A blood donation app facilitating communication between donors and patients.

**NFT Generator** *NFT, AI, Stable Diffusion, Python*

Python-based NFT art generator using Stable Diffusion AI featuring automated watermarking and blockchain-ready hash verification.

**Telegram Games** *Gaming, Telegram, Python*

A suite of Telegram games starting with a strategic 4x4 Tic Tac Toe, built using Python and the Telegram API.