Rajat Kumar

rajatwasan@duck.com | +1 850 966 2473 | San Francisco, CA
/in/wasanrajat | /rajatwasan | https://rajatwasan.com | rajatwasan.eth

SUMMARY

Experienced blockchain and fintech engineer with 8+ years leading protocol, platform, and product development in high-performance financial applications. Proven track record in building and scaling smart contract systems, low-latency trading backends, and regulatory-compliant blockchain infrastructure. Proficient in Solidity, TypeScript, and Rust with deep expertise in crypto custody, asset tokenization, and DeFi. Led startup engineering teams, authored ERC-7518 for dynamic compliant security tokens, and judged security/privacy tracks at ETHDenver. Passionate about driving innovation in digital assets, Web3 infra, and regulated crypto finance.

EXPERIENCE

ZONIQX

Lead Blockchain Engineer (Director) — September 2024 – Present | San Francisco, California

- Shaping technical vision for ZConnect, leading Rust-based protocol and smart contract development.
- Author of ERC 7518, "Dynamic Compliant Interop Security Token," a novel standard that leverages semi-fungible partitioning to enhance dynamic compliance and interoperability.
- Partnered with product, compliance, and business stakeholders to align roadmap with regulatory and market needs.
- Engineered and integrated security token standard functionalities on XRPL, Cosmos and Cardano, expanding the protocol's interoperability and performance across diverse ecosystems.

Lead Blockchain Engineer (Founding Engineer) — July 2019 – August 2022 | Bangalore, India

- Architected token issuance, DEX, and lending protocols, supporting multi-chain asset tokenization.
- Delivered SDKs and APIs (Node.js, Rust) powering compliance-driven tokenization infrastructure.
- Designed and shipped a high-throughput indexer and microservices in Go for on-chain analytics.
- Developed and architected smart contracts for token issuance, decentralized exchanges (DEX), and lending within the DyCIST protocol, enabling chain-agnostic asset tokenization.

CONFERENCES COMMUNITY ENGAGEMENT

ETHDenver 2025 – Hackathon Judge — February 2025 | Denver, Colarado

- Reviewed and evaluated cutting-edge blockchain solutions with a focus on decentralized identity, zero-knowledge proofs, and privacy-enhancing technologies

FLORIDA STATE UNIVERSITY

Graduate Teaching Assistant — August 2023 – May 2024 | Tallahassee, Florida

- Researched Ethereum's scalability issues and explored solutions such as zkSync, rollups, and micro-rollups to enhance network scalability while ensuring client side data privacy.
- Delivered lectures in software engineering and cybercrime forensics.

COGNIER INSIGHTS PVT. LTD

Senior Blockchain Developer — July 2017 – July 2019 | Hyderabad, India

- Delivered production smart contracts and wallet integrations for fintech and real estate platforms.
- Developed smart contracts, and integrated wallet functionality, significantly enhancing transaction efficiency and user experience for a real estate subscription and booking platform.
- Planned, researched and implemented proof-of-concept (POC) blockchain solutions for Fintech, Healthcare, Real Estate, and supply chain industries.

SKILLS

PROGRAMMING LANGUAGES: Solidity • Typescript • Node.js • Rust • Go
BLOCKCHAIN EXPERTISE: Ethereum (Layer 1 and 2) • DeFi • Tokenization • Protocol Design • Custody
LEADERSHIP • Engineering strategy • scaling teams • operational excellence • regulatory alignment

EDUCATION

FLORIDA STATE UNIVERSITY | Master's (Thesis) in Computer Science
Graduate Assistant in Teaching
Aug 2022 - May 2024 | FL, United States

- Investigated EVM security vulnerabilities in the context of quantum computing threats and conducted performance analysis for potential transitions to quantum-resistant algorithms, such as lattice-based cryptography
- Contributed to the group projects focusing on smart contract development and security review for Multi-sig wallet and atomic swaps
- Developed model for Re-identification of a Vehicle Using Complementary Features from unstructured data
- Coursework: Cryptography, Computer Networks, Advanced Algorithms, Design System

KURUKSHETRA UNIVERSITY | Bachelor of Technology (Honors) in Computer Science
Aug 2013 - June 2017 | Haryana, India

- Served as a proactive representative for the Entrepreneurship Development Cell, IIT Delhi at Kurukshetra University, focusing on client interactions.
- Secured first place in a security hackathon organized by Lucideus for building certificate verification on bitcoin
- Collaborated with faculty members to mentor students in cutting-edge fields like programming, crypto, deep learning, web3, and Distributed system
- Secured the coveted first position in the Young Scientist event at Ignite Tech Fest 2014, showcasing an innovative engineering project
- Coursework: Computer Architecture, Neural Networks, Data Structures and Algorithms, Object-oriented Languages, Mathematics

PROJECTS

DyCIST Protocol (ERC-7518)
New Ethereum standard for dynamic compliant security tokens.

Swapient
DEX for subatomic swaps and DeFi lending, enabling seamless microtransactions and decentralized finance solutions

Mimir
High-performance indexing service for EVM-compatible blockchain networks.

Realto
B2B, SaaS financial application for Asset Management and Tokenization in alternative Financial Systems

Outpace
Connector and Orchestration Components for No-Code Platform, providing seamless integration of various services and API design without the need for coding expertise.

Ownet
Real Estate Subscription and Booking Platform for Coworking Spaces and Hotels, Delivering Exceptional Value to Investors and Issuers.

MedCryp
EHR Dapp and web based application for Secure storage and sharing of Medical Records

Secure file sharing
Peer to peer Application for file sharing with Enhanced Information Security. Includes key management based on time and count.

Object detection and analysis
Computer vision project for customer segmentation by products, and category from video streams, utilizing SVM (Support Vector Machine) for classification tasks like screening for criminal activities.