

# John Whitton

Principal Engineer — Distributed Systems  
Financial Infrastructure | Execution Systems | Payments

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## Professional Summary

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Principal engineer specializing in distributed systems, financial infrastructure, payment platforms, and execution systems.

Built production systems spanning enterprise integration, stablecoin payments, cross-chain settlement, blockchain infrastructure, and transaction execution. Recent work includes Rust-based execution systems evaluating 1000+ routes/sec, stablecoin payment infrastructure on rollup architectures, and a Rust-based Polkadot parachain supporting DeFi applications and validator infrastructure.

## Core Technologies

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**Languages:** Rust (3 years), Solidity (4 years), TypeScript (3 years), Go (2 years)

**Infrastructure:** AWS, Kubernetes, Docker, Postgres, MongoDB Atlas, Terraform, gRPC, Datadog, PagerDuty, CI/CD, TIBCO

**Financial & Enterprise Systems:** Payments, Stablecoins, Cross-Chain Settlement, Transaction Processing, Lending Protocols, Intent-Based Execution, DEX Infrastructure, SAP, Salesforce

**Execution Systems:** Route Evaluation, Simulation, Execution, Replay, Strategy Analytics

**Developer Tooling:** Tycho, Substreams, Alloy, Foundry

**Blockchain & DeFi Protocols:** Harmony, Ethereum, Polkadot, Base, Optimism, Hyperledger, Rollups, Smart Contract Development, Uniswap, SushiSwap, Morpho, Aave, CoW Protocol, 1inch, UniswapX

## Professional Experience

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**Principal Engineer** 2018 – Present  
*Independent Research & Development*

Research, protocol development, fundraising, and consulting across blockchain infrastructure, execution systems, and DeFi protocols.

- **EAVE (2020–2022):** Built a Rust-based Polkadot parachain and DeFi protocol including validator infrastructure, protocol architecture, governance, tokenomics, developer tooling, and ecosystem design
- **EAVE (2020–2022):** Produced technical whitepapers, architecture specifications, investor materials, and secured approximately \$300,000 in investor commitments
- **Solver (2025–Present):** Built Rust-based execution infrastructure evaluating 1000+ routes/sec across Ethereum, Base, and Unichain using Tycho, Substreams, Alloy, live liquidity ingestion, simulation, pricing, profitability analysis, execution, and settlement
- **Solver (2025–Present):** Built and evaluated route graphs spanning 17,000+ tokens, 8,000+ liquidity pools, and 2.3M+ routes with peak throughput exceeding 1,100 route evaluations per second
- **Salus (2025–Present):** Designing a next-generation trading platform for historical replay, strategy analytics, profitability analysis, and CeFi/DeFi execution

**Engineering Manager / Senior Protocol Engineer** Aug 2023 – Jan 2025  
*Eco Inc*

- Led a team of 8 engineers building stablecoin payment infrastructure, programmable money systems, and rollup-based financial applications across Ethereum, Base, and Optimism ecosystems
- Delivered cross-chain routing, settlement, and transaction execution infrastructure across Ethereum and Layer-2 ecosystems
- Operated production AWS infrastructure using Kubernetes, MongoDB Atlas, Terraform, Datadog, PagerDuty, and CI/CD automation
- Recruited engineers and drove delivery across backend, frontend, infrastructure, and protocol engineering initiatives
- Built and operated wallet, routing, proving, and payment services supporting the Eco stablecoin ecosystem

### **Ecosystem Architect**

Aug 2019 – May 2020

#### *Harmony Protocol*

- Scaled engineering organization from 6 to 20 engineers through hiring, onboarding, mentorship, and developer advocacy initiatives
- Supported launch of Harmony Mainnet, token swap, staking infrastructure, developer platform services, and validator ecosystem growth
- Coordinated 50+ production network upgrades, deployed 300+ nodes, and supported 600+ validators across distributed blockchain infrastructure
- Led APIs, SDKs, developer tooling, documentation, ecosystem integrations, and validator onboarding programs
- Worked closely with exchanges, infrastructure providers, ecosystem partners, and validator operators to drive network adoption and reliability

### **Chief Technology Officer**

Jul 2016 – Jun 2018

#### *Loyyal*

- Led distributed engineering teams across the United States and Africa building enterprise financial and loyalty infrastructure
- Delivered private Ethereum and Hyperledger-based platforms supporting enterprise transaction processing, interoperability, and loyalty payment workflows
- Designed API, integration, and transaction processing infrastructure supporting loyalty, payment, and enterprise partner workflows
- Delivered Dubai Points, a blockchain-based tourism and loyalty platform deployed with enterprise partners
- Owned technical delivery and partner success across IBM, Deloitte, Emirates Airlines, and CIBC partnerships

### **Earlier Experience**

#### *Enterprise Architect, Engineering Manager, and Founder across EFI, Autodesk, and Global Enterprise Solutions*

- Led architecture, staffing, prioritization, and delivery across 100+ initiatives supporting enterprise integration, financial systems, licensing, ecommerce, and operational platforms
- Built service-oriented platforms integrating SAP, Salesforce, payment processing systems, logistics providers, ecommerce platforms, and external partner ecosystems
- Founded and scaled a consulting firm generating approximately \$800,000 annual revenue delivering architecture and enterprise integration services

### **Education**

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#### **Bachelor of Science (Computer Science)**

University of Queensland