

John Whitton

Principal Engineer — Distributed Systems
Platform Engineering | Software Architecture | Distributed Systems
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Professional Summary

Principal engineer specializing in distributed systems, platform engineering, software architecture, and infrastructure.

Built high-performance systems spanning network infrastructure, graph processing, route evaluation, simulation, replay, protocol engineering, and distributed application platforms.

Recent work includes Rust-based graph and evaluation systems processing millions of routes across thousands of assets, a Rust-based Polkadot parachain, and distributed blockchain infrastructure supporting hundreds of nodes and validators.

Core Technologies

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

Distributed Systems: Graph Processing, Route Evaluation, Simulation, Replay, Event-Driven Systems, State Synchronization

Developer Tooling: Tycho, Substreams, Alloy, Foundry

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

Enterprise Platforms: SAP, Salesforce, TIBCO

Blockchain Platforms: Ethereum, Base, Unichain, Harmony, Polkadot, Hyperledger

Professional Experience

Principal Engineer

2018 – Present

Independent Research & Development

Research, protocol development, fundraising, and consulting across distributed systems, platform engineering, and blockchain infrastructure.

- **EAVE (2020–2022):** Built a Rust-based Polkadot parachain and distributed application platform 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 graph processing and evaluation systems spanning 17,000+ tokens, 8,000+ liquidity pools, and 2.3M+ routes with peak throughput exceeding 1,100 route evaluations per second
- **Solver (2025–Present):** Developed route generation, simulation, pricing, and evaluation infrastructure using Tycho, Substreams, Alloy, and event-driven processing architectures
- **Salus (2026–Present):** Designing a next-generation replay and analytics platform supporting historical evaluation, strategy analysis, graph generation, and large-scale route processing
- **Salus (2026–Present):** Built graph and route generation systems spanning 3,400+ tokens, 4,500+ protocol components, 9,100+ graph edges, and 2.3M+ generated routes on Ethereum

Engineering Manager / Senior Protocol Engineer

Aug 2023 – Jan 2025

Eco Inc

- Built and operated distributed services supporting routing, settlement, wallet infrastructure, proving systems, and protocol integrations
- Operated production AWS infrastructure using Kubernetes, MongoDB Atlas, Terraform, Datadog, PagerDuty, and CI/CD automation
- Delivered cross-chain transaction routing and execution infrastructure across Ethereum and Layer-2 ecosystems

Ecosystem Architect

Aug 2019 – May 2020

Harmony Protocol

- Supported launch of Harmony Mainnet and distributed network infrastructure supporting 300+ nodes and 600+ validators
- Coordinated 50+ production network upgrades across a globally distributed blockchain network
- Led APIs, SDKs, developer tooling, documentation, ecosystem integrations, and validator onboarding programs
- Scaled engineering organization from 6 to 20 engineers through hiring, onboarding, mentorship, and developer advocacy initiatives

Chief Technology Officer

Jul 2016 – Jun 2018

Loyal

- Built distributed transaction-processing platforms using Ethereum and Hyperledger technologies
- Designed API, integration, and interoperability infrastructure supporting enterprise-scale partner ecosystems
- Led engineering delivery across distributed teams in the United States and Africa

Earlier Experience

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

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

Education

Bachelor of Science (Computer Science)

University of Queensland