Alec Savoy

Senior Distributed Systems Engineer / Protocol Architect

Contact

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Core Expertise

- Distributed systems and protocol design across centralized services and decentralized networks
- Cryptographic primitives, key management, and signing workflows
- Content-addressed storage, replication, and data integrity
- Payments, wallets, and on-chain/off-chain coordination
- Event-driven architecture and message-based workflows
- Production infrastructure and DevOps across centralized cloud and decentralized validator networks

Languages:
Go, Rust, JavaScript/TypeScript, Scala, Python

Protocols & Systems:
CometBFT, Solana, Ethereum, protobuf, gRPC, ConnectRPC, REST, OpenAPI

Data:
PostgreSQL, PebbleDB, SQLite, MongoDB

Infra:
Docker, Kubernetes, GitHub Actions, CircleCI, Pulumi, AWS, GCP

Experience

Audius

Senior Software Engineer — Jan. 2023 – Dec. 2025

Audius Protocol

- Designed and released a typescript-based plugin system for the Audius Protocol (Pedalboard)
- Moved high-throughput write and play paths off Solana into an in-house Layer 1, reducing RPC load and improving throughput
- Decreased on-call events from weekly to quarterly by moving to the OpenAudio Protocol

OpenAudio Protocol

- Prototyped, implemented, and released the first Layer 1 protocol for music distribution and interoperability
- Open-sourced and maintained validator, block explorer, and schema repositories
- Migrated the Audius Protocol to OpenAudio with zero downtime
- Released the OpenAudio brand and community

First Foundry

Lead/Senior Software Engineer — Apr. 2017 – Jan. 2023

Rally.io

- Built backend services for creator tokens using Akka, PostgreSQL, MongoDB, and Kafka
- Integrated with live Twitch event streams to power real-time games, leaderboards, and viewer rewards

Forte.io

- Developed blockchain tooling for game economies using Rust, RabbitMQ, PostgreSQL, and OpenEthereum
- Converted entire project from synchronous to asynchronous Rust, introducing tokio and async/await
- Developed Solidity smart contracts including bonding curves, AMMs, staking, and ERC20/721/1155 tokens

Resonant Systems

Founder / Principal Engineer — Dec. 2025 – Present

Shreddr

- Designed cryptographic ticketing and access-control systems for live events with payment and on-chain verification

Mojave

- Designing decentralized media distribution network with validator-operated storage and encrypted assets

Stashd

- Exploring cryptographic proof-based merch purchasing and distribution for live events

Education

University of Oregon
B.S. Spatial Data Science
2014 – 2018