

Joseph Chalabi

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SUMMARY

Software engineer with seven years in blockchain infrastructure and full-stack development. I spend most of my time in Go, Rust, and TypeScript, and I like owning work end to end: protocol design, the implementation, and the interfaces on top. Recent work spans Cosmos SDK modules, distributed surveillance systems, and a custom API gateway serving 1B requests a month.

EXPERIENCE

Akash Network, *Senior Core Engineer*

2026 - Present

- End-to-end ownership of protocol features and products, like provider verifications (AEP-86): authored the spec, drove the implementation, and shipped the first SDK release.
- Shipped the `x/verification` Cosmos SDK module (20 Msg RPCs, 13 query RPCs, 31 typed events) plus `x/provider` registration and `x/market` bid-filter extensions.
- Ship across the stack: protocol modules in Go, Console product features in React, including the Console-Air self-custody wallet and signing flows.
- Review cross-team proposals from AkashML, Homenode, and Console; unblock spec gaps as they come up.

Go, Cosmos SDK, Protobuf/gRPC, Next.js, React

Strongwatch, *Software Engineer*

2025 - Present

- Designed a distributed microservice architecture (Go, Node.js) for a mobile surveillance platform that fuses IR cameras, radar, and multi-channel communications (MQTT, gRPC, REST, WebSockets).
- Built the security posture end to end: mTLS through Envoy, encryption in transit and at rest, and FIPS and FedRAMP alignment.
- Built resilient edge-to-core systems that handle intermittent connectivity, state reconciliation, and real-time streaming.
- Deployed live video pipelines and geospatial services (GeoServer) for command-and-control interfaces.
- Maintain CI/CD and automated deployments across containerized services (Docker, Kubernetes).

Go, Node.js, MQTT, gRPC, Envoy, Kubernetes, GeoServer

Chandra Station, *Founder*

2020 - Present

- Founded and run a self-hosted blockchain infrastructure company. Designed, built, and operate a custom API gateway serving 1B requests a month across REST, gRPC, WebSocket, and RPC on owned hardware.
- Lead a four-person engineering team and operate the microservice fleet; built the product frontend with Next.js, Tailwind, Prisma, Stripe, and tRPC.
- Althea.Link (contract): built the core asset-management platform with a Rust backend for data aggregation and gRPC transaction orchestration, a gasless multi-node relay, and a Next.js DEX frontend with real-time pricing.
- Manifest (contract): built a distributed Next.js platform for user-group management and proposal workflows, with asset-management APIs and full Jest coverage.

Rust, Go, TypeScript, Next.js, tRPC, Prisma, Bun

SKILLS

TypeScript · JavaScript · Rust · Go · Python · C/C++ · React · Next.js · tRPC · Node.js

ADDITIONAL

Robotics and custom electronics: prototyping and building custom PCBs, drones, and passive drone detection systems.

Licensed HAM radio operator: active CW operator in the morse code communications hobby.

Licensed remote pilot: I fly drones for companies and as a hobby.

3D printing and modeling: I model for companies and personal projects, and manufacture my own parts and equipment.