

## EXPERIENCE

Lead Software Engineer · Squads

May 2024 – Dec 2025

- STACK: Rust, Tonic gRPC, Temporal, Solana, Envoy, Tilt, SQLx, PostgreSQL, Redis, AWS, ECS, OpenTelemetry
- Built a Temporal-powered, event driven pipeline with idempotent processing, safe replays/backfills, and schema versioning.
  - Reduced internal propagation latency from ~200ms to ~40ms while supporting peak 5,000 transactions per second during migrations and catch-up.
  - Led a DigitalOcean to AWS migration; standardized ECS deployments and added OpenTelemetry tracing for observability and reliability.

Senior Software Engineer · Fractal

May 2022 – May 2023

- STACK: Golang, Web3, Ethereum, Polygon, GCP, Spanner, Microservices
- Optimized transaction submission/confirmation with better concurrency, retries, and timeouts; improved transaction processing time from ~1.5s to ~1.0s.
  - Designed a chain agnostic execution layer with adapters, order lifecycle state machine, and two-stage signing.
  - Delivered consistent buy, sell, and partial fill flows with reliable transaction processing and safe retries.

Lead Software Engineer · Fast (acquired by Affirm)

May 2021 – May 2022

- STACK: Golang, AWS, Step Functions, DynamoDB, Checkout, Fraud Prevention
- Led a five-engineer fraud pod and architected a Step Functions/DynamoDB payments checkout that processed \$1B+ in GMV.
  - Implemented idempotent payments and real-time decisioning to prevent payment fraud while maintaining a seamless user experience.

Software Engineer · Pendo

Aug 2018 – May 2021

- STACK: Golang, GCP, Product Analytics, Walkthroughs, Internationalization, OAuth
- Built high-volume event ingestion for unstructured data and added metadata parsing to the event pipeline.
  - Delivered internationalized walkthroughs, guides, and onboarding with location-based segmentation.
  - Coordinated onboarding across products to unlock enterprise deployments.

## SKILLS

- Languages & Backend:** Golang (7 yrs), Rust (2 yrs), Python, Tonic gRPC, Protocol Buffers, SQLx, Temporal, Microservices, Distributed Systems, Scalability
- Infrastructure & Cloud:** AWS, GCP, Terraform, CI/CD Pipelines, Envoy, Tilt, Docker Compose, ECS, OpenTelemetry, Observability, Reliability
- Data & Integrations:** PostgreSQL, Redis, Solana SDK, AWS SSM/SES/S3, Redis/SSE streaming, Event Driven Architecture, Payments

## EDUCATION

- Georgia Institute of Technology

M.S. Computer Science

Atlanta, Georgia

Dec 2020
- North Carolina State University

B.S. Computer Science, B.A. Physics

Raleigh, North Carolina

May 2018