

Edward Chan

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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

Atlanta, Georgia

M.S. Computer Science

Dec 2020

North Carolina State University

Raleigh, North Carolina

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

May 2018