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SUMMARY

Backend engineer at Fidelity (Golang, TypeScript) shipping production fintech AI-natively – coding agents, custom skill libraries, spec-driven development – while building agentic tooling: an autonomous software factory, a Figma design agent, and a Reg-T margin SDK.

SKILLS

AI/Agents: AI-native & spec-driven development, agent orchestration, custom skill libraries, Model Context Protocol (MCP)

Languages: Golang, TypeScript, JavaScript, Python, Swift, SQL

Backend: Node.js, Express, Apache Kafka, REST APIs, Microservices, MongoDB, Elasticsearch

Frontend: React, Angular, Next.js, Tailwind CSS

Cloud/DevOps: AWS, Docker, Kubernetes, Helm, OPA, Terraform, GitHub Actions, Jenkins

PROJECTS

Score (*TypeScript, Bun, MCP – Autonomous Software Factory*)

2026 - Present

- Harness-agnostic “lights-off” software factory driving AI coding agents through plan/implement/verify loops unattended.

Mercury (*TypeScript, Bun, MCP – Figma Design Agent*)

2026 - Present

- Built an MCP server with a companion Figma extension letting LLM agents read designs and generate or modify them via codemod-style transforms – design-to-code and code-to-design in both directions.

Limn (*Golang – Reg-T Margin Calculation SDK*)

2026 - Present

- Building an SDK that implements Regulation T margin math – initial/maintenance requirements and buying-power calculations.

WORK EXPERIENCE

Fidelity Investments

Nov. 2024 - Present

Software Engineer

Westlake, TX

- Led the Audit service’s search migration off Elasticsearch onto a purpose-built MongoDB query layer over 480M+ deserialized Kafka messages (300M in the largest tenant) – designed the indexing and pagination strategy, cutting query latency from 3.0s to 0.02s (150x) and eliminating \$100K/year in infrastructure spend.
- Owned the consolidation of the audit consumer and query services (TypeScript) into one – brought the codebases to parity and unified Helm deployment config and OPA policies, cutting deploy surface and on-call load.
- Designed and built the Kafka event layer for the Margin microservice (Golang) – goroutine-based consumers per topic for parallel processing, patterned on the audit pipeline proven at 480M+ messages.
- Drove reliability hardening across Margin APIs – retries with idempotency plus locking and transactional writes, closing TOCTOU race conditions that risked incorrect margin-call state.
- Pitched and built an AI-first platform proof-of-concept for advisor workflows (TypeScript, Python); moved into active development within two weeks of the demo.
- Implemented 75+ technical indicators (SMA, momentum, and others) in a Golang backend using go-talib, powering internal trading tools.
- Delivered the above via an AI-native workflow – orchestrating coding agents with a custom skill library and spec-driven development, owning design, review, and correctness.

Solvitarka

Jul. 2024 - Nov. 2024

Founder

Remote

- Built two Flutter products solo, end-to-end: a Lightning Network wallet on the Breez SDK (secured a Breez partnership) and an ops dashboard for a geotechnical exploration firm; wound down when validation stalled.

Northeastern University – Digital Scholarship Group

Apr. 2022 - Jun. 2024

Developer (Part-Time, alongside MS & co-op)

Boston, MA

- Modernized the CERES Exhibit Toolkit: ES6 upgrade of a 7,000-line codebase (webpack, 50% fewer backend calls, Jest TDD); rebuilt its legacy plugin as React Gutenberg blocks across 40+ sites.

Fidelity Investments

Jan. 2023 - Jun. 2023

Software Engineer Co-Op

Boston, MA

- Built a Swift-based Bitcoin Lightning wallet proof-of-concept – QR-code payments and social features, with Lightspark integrated for Lightning payments.

EDUCATION & AWARDS

Northeastern University – MS, Computer Software Engineering

Jan. 2022 - Dec. 2023

1st Place, “Best Use Case of Polygon ID” – ETHGlobal NYC (2023) | “Best Use of Wormhole” – LionHack (2023)