

# Jacob Silverman

Software Engineer — data-intensive applications in AI & crypto

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## SUMMARY

Software engineer specialising in data-intensive applications across AI, crypto, and fintech — systems that turn messy, high-volume data into legible product. Trading crypto from 2020, I built the tools nothing else could do: a deterministic double-entry ledger reconciling 20+ wallets across chains. When FTX collapsed in 2022, the proof lived off-chain — so I turned to early local ML: multi-modal pipelines (voice/vision/OCR over 100GB+, on local models) parsing statements, screenshots, and recordings into structured, sourced entries. When models matured in 2024, I put one in the loop: agentic AI harnesses where the model reasons and a deterministic engine computes — structured tool-call outputs, eval datasets grading every proposal, guardrails around non-deterministic reasoning. Comfortable across the stack — TypeScript/Node back-ends, React front-ends, Python ML pipelines, Solana/Rust, Postgres/GraphQL, GCP/AWS/Vercel.

## EXPERIENCE

**Software Engineer · Self-employed** 2026 – Present

Building **AccountMD** — a deterministic double-entry engine for crypto + fiat, operated through an AI harness (Claude Code + domain skills), so every number carries its receipts. FIFO cost basis, multi-chain event parsing, per-wallet audit trails, and on-chain forensics — reconstructing wallet flows and running token/project due diligence (rugs, exploits) on Solana. Alongside, freelance fiat-valuation work for a finance client (MYOB + Xero).

**Software Engineer · Self-employed** 2020 – 2026

Self-directed trading infrastructure on Solana — built P&L analytics and trade-ledger reconstruction tooling for delta-neutral day-trading and DLMM market making (Metora), across ~1000s of transactions (see the project demos below).

**Sales Engineer · STRV** 2017 – 2018

Pre-sales engineering at a US software-development agency (New York) — scoping custom software builds and translating client requirements into project specs.

**Software Engineer Intern · Atlassian** 2014 – 2015

Software engineering internship in the Jira/Confluence ecosystem, during my UNSW engineering degree.

## EDUCATION

**University of New South Wales** 2012 – 2016

Bachelor's Degree in Engineering (Electrical)

## TECH STACK

TypeScript · Python · Rust · Java · SQL · HTML5 · Agentic AI / LLM tools · Evals / structured output · Local LLMs (Llama, MLX) · Multi-modal ML (Whisper, Qwen3-VL, OCR) · React · Node.js · Remix / React Router · Next.js · Data viz / charting (D3.js, SVG) · Tailwind · PostgreSQL · SQLite / FTS5 · BigQuery · GraphQL · ORMs (Prisma, Drizzle) · Solana (Anchor, Helius) · Metora DLMM · On-chain forensics · Xero & Stripe APIs · FIFO accounting · Docker · CI/CD (GitHub Actions) · Testing (Vitest, Playwright) · GCP · AWS · Fly.io · Vercel