

Daniel Togni

Hands-on Staff Engineer / Tech Lead — I build and operate real production systems, end to end.

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SUMMARY

Builder-first senior engineer, 20+ years across electronic design automation (EDA), mobile, full-stack, and big-data systems — at two startups (co-founder of MoWaiter) and, most recently, Visa. I take systems end to end — design, build, test, deploy, operate — and lean heavily on LLMs and agentic CLIs to compress the dev loop. I lead engineering teams while staying in the hardest code: unblocking peers through design review, pairing, and prototyping — not headcount planning. Looking for a founding-engineer / staff / hands-on tech-lead seat at an early-stage company.

SELECTED PROJECTS

A live, self-operated platform — two systems I built and run in production, not tutorial repos. This is the work I'd point a hiring manager at first.

DS Trader + FamilyFund — integrated, self-operated production platform

An algorithmic trading engine that places real trades and a portfolio platform that is the book of record — designed, built, deployed, and operated end to end by me.

DS Trader — *Java 21 · Maven · Docker · Interactive Brokers TWS API*

- Built and operate a live, **rules-based** algorithmic trading engine that places real orders across 3+ Interactive Brokers accounts (live and paper) via the TWS API; runs unattended on a daily cron in Docker. **Live and trading for ~5 years** in personal use.
- Implemented three independent rule-based strategies (rebalancing, linear-regression signal, threshold exit) behind a common execution interface; ~40 test classes guard the order logic.
- Built a Python sister service (`fin-export`) that aggregates holdings and transactions across Monarch, Fidelity, Schwab, and a credit union into a normalized feed, with HTML/JFreeChart email reporting.

FamilyFund — *Laravel 12 · PHP 8.2 · MariaDB · Livewire 3 / Tailwind*

- Built and run a self-hosted family portfolio platform in **daily production use** by my family.
- Designed **share-based fund accounting** (accounts hold shares, not dollars) over **bitemporal tables** (start/end-dated balances, positions, and prices), enabling an `/as_of/{date}` time-travel API.
- **~240 test files / 2,200+ tests** across 5 suites (Unit, Feature, API, Repository, golden-data); token-guard REST API and **multi-tenant access control** (Spatie).
- **Multi-account funds** — a fund can hold multiple accounts, enabling a consolidated net-worth view across institutions.
- Operations: scheduled jobs, Interactive Brokers Flex-statement ingestion, quarterly PDF reports (with forward-looking projections and new graphs added in 2026), and multi-tier backups. Running security scans, preparing the repo for public release.

Integration — the two systems form one platform: DS Trader pushes positions and prices into FamilyFund over REST (bulk price/portfolio endpoints); FamilyFund is the system of record. End-to-end ownership across three languages (Java, PHP, Python), data modeling, API design, and production operations.

EXPERIENCE

Visa — Foster City, CA

Apr 2015 – Present

Engineering Manager · Jan 2019 – Present

Managing the **Benefits team** since 2020 and the **US Installments team** since early 2026 — ~10 FTE today (previously up to 20 with contractors).

- Built **15+ internal CLIs** wrapping Visa's enterprise tools (ticketing, inventory, security scans, workflow management, credential management) so agentic AI can drive them programmatically — **~200K LOC, 70%+ test coverage, shipped in ~2 months**.
- *Installments (2026–)*: Leading integration of Visa installments into general wallet platforms — designing a **wallets-orchestrator** that brokers installment offers across wallets.
- *Benefits (2020–)*: Delivered a large regional refactor of the benefits platform across **LAC** and **CEMEA**.
- Scaled the dynamic-benefits big-data pipeline **~50x** in volume, moved it from weekly to daily, and cut **downtime by 60%**.
- Drove migration of **~50% of the web platform to Spring Boot / Angular**, unblocking rollout to all non-US regions.
- Championed test automation across the web app and big-data systems — coverage **30% → 80%** (Docker, TestNG, JUnit, Karate, Cypress).
- Stayed hands-on in technical design and code review, contributing directly to architecture decisions alongside the team.

Lead Software Engineer · Apr 2015 – Dec 2018

- Led a **team of 5** to ship a card-usage-based offers platform (Java, Bash, MySQL) across the full SDLC; drove a **+3% lift in cashless transactions** in Japan despite a consumption-tax increase.
- Built a targeted-offers system processing **1.5M segment annotations/week** (Java, Hive, Bash, PHP, MySQL), leading a team of 3 and introducing the org's first agile practice.
- Led and coded the card-linked-offers integration (Java, Hive, Bash) with TrialPay infrastructure (PHP, MySQL, Docker), enabling integrations such as Uber Local Offers.

TrialPay — Mountain View, CA

Mobile Engineer · Aug 2013 – Apr 2015 — app-monetization / offerwall platform (acquired by Visa)

- Built the **3rd-generation TrialPay Lightweight SDK from the ground up** for iOS, Android, and Unity3D; contributed to the 2nd-gen iOS/Android SDKs.

MoWaiter — Sunnyvale, CA

Co-founder · CTO / Architect / Developer · Apr 2011 – Oct 2013 — smartphone dine-in ordering, payment, and waiter-messaging product

- Owned product, architecture, and DevOps end to end; **built the iOS app, PHP/Symfony2 back end, databases, and AWS EC2 infrastructure from scratch** (Objective-C, PHP, MySQL, JavaScript/jQuery).

Nangate Inc.

Field Application Engineer / Developer / Technology Specialist · May 2006 – Apr 2011 — EDA tools for automated standard-cell library generation

- Built characterization-results visualization tools, maze routers, and routing algorithms (C++, Perl); **cut tool configuration time from 4 days to 6 hours** with new config tooling (Perl/Tk). Pre/post-sales technical support across the US, Europe, Asia.

Fujitsu Laboratories of America

Member of Research Staff · 2005 – 2006

- R&D on a CAD tool for automated clock-network synthesis (C++): automated cell generation, transistor-netlist electrical simulation, and multi-threaded Monte Carlo on gridded compute.

SKILLS

Languages: Java, PHP, Python, JavaScript, C++, Perl, Objective-C, Bash, SQL

Frameworks & runtime: Laravel, Livewire, Spring Boot, Angular, Symfony, Unity3D, jQuery

Data: MySQL / MariaDB, Hive, IBM Db2, big-data pipelines, bitemporal data modeling

Infrastructure & ops: Docker, AWS EC2, cron-driven jobs, REST API design, CI / test automation (TestNG, JUnit, Karate, Cypress), Linux self-hosting, backups & monitoring

Domains: EDA / microelectronics CAD, mobile (iOS/Android SDKs), full-stack web, big-data engineering, payments / fintech

Practices: test-driven development & high coverage, end-to-end ownership, small-team technical leadership (design review, pairing), **AI-assisted development (LLMs, agentic CLIs, MCP servers)**

Interests: LLMs, human–AI interfaces, and education

EDUCATION

Universidade Federal do Rio Grande do Sul (UFRGS) — Porto Alegre, Brazil

- M.S., Computer Engineering — 2003–2005
- B.S., Computer Engineering — 1998–2003

Languages: English (full professional), Portuguese (native).