
SUMMARY

I build 0-to-1 agentic AI platforms that external partners actually use, not because they're required to, but because the platforms solve real problems. From founding a cross-border marketplace serving international logistics and fintech partners to consulting engineering orgs on agentic adoption...

Agentic AI: Agentic Platforms, AI Governance, Multi-Agent Orchestration, Sprint Intelligence, Context Engineering

Partner Platforms: API Design, Partner Integrations, 0-to-1 Solutions, Cross-Border Systems, Platform Adoption

Technologies: Python, TypeScript, React, AWS, Kubernetes, Docker

EXPERIENCE

Staff Software Engineer | AI Systems Architect, Unicity International | Provo, Utah **Jan 2025 – Jan 2026**

Tech Stack: GenAI, LLMs, TypeScript, Python, AST Parsing, PHP, AWS, Kubernetes, GitHub Actions, CI/CD, Context Engineering, MCP

- **Agentic AI Sprint Intelligence:** Built pre-grooming system using historical transcripts as KB. Double-blind validated at +/-1 story point accuracy. 2.5x team velocity, 13% sprint efficiency gain, prevented production outage.
- **Migration Agent Platform:** 5 specialized sub-agents orchestrating 34 parallel agents for validation, reducing endpoint migration from hours to <10 minutes. 90% error reduction at scale.
- **TRW Framework Consulting:** Working with Utah engineering organizations to pilot agentic orchestration framework turning developers into agent orchestrators. Surpassed 40% industry benchmark for framework adherence.
- **AI Governance Framework:** After agent modified AWS routing tables breaking production, established read-only AI accounts, DevOps approval workflows, and failure-as-state design.

Engineering Manager / Technical Lead, Unicity International | Provo, Utah **Nov 2023 – Jan 2026**

Tech Stack: Redis, Datadog, LaunchDarkly, PHP, Laravel, Docker, AWS, CI/CD, TravisCI, BPF

- Led migration of 289 API endpoints achieving 96% production traffic on Laravel, delivering 34% faster response times and 4x order processing improvement (300 to 1,300 orders/5min).
- Achieved \$336K annualized savings (FinOps tags + invoices): cloud infrastructure (\$278K), DataDog optimization 62.5% (\$12K to \$4.5K/month), RDS consolidation (\$32K). Removed 500,000 lines legacy code.
- Built real-time debugging platform (Redis/Xdebug/BPF) reducing MTTR by 95% (incident logs, 90-day window).
- Diagnosed Redis pooling issue achieving 95% DNS resolution improvement and 97-98% OTP auth improvement.
- **Mentored 10+ engineers through 185+ 1:1 sessions;** gave 558 peer recognitions fostering positive culture. CTO recognition: 'Tyler is AI' for innovation leadership.
- Led first load test in company history—5 sessions, zero system failures, 85-90% confidence for peak traffic. Attended every strategic meeting throughout tenure.

Principal Engineer, ButcherBox | Remote **Feb 2022 – Oct 2023**

Tech Stack: OpenAI GPT-3, React, TypeScript, Node.js, Azure, Kubernetes, CI/CD, GitHub Actions, Shopify, Instacart

- **Instacart Flagship Partnership:** Single-handedly led and delivered Instacart integration, the company's flagship partnership initiative. Owned architectural design, cross-team coordination, and executive visibility end-to-end.
- **Shopify Platform Migration:** Led migration and integration to Shopify, prototyping the approach and driving adoption across engineering and operations teams.
- **GPT-3 Pioneer for Partner Impact:** Pushed GPT-3 into production (2022, pre-ChatGPT) automating support workflows. One of the earliest enterprise AI deployments. Built the ROI case that freed AI tooling budget organization-wide.
- **Partner-Facing Platform:** Transitioned proof-of-concept Zendesk dashboard app into production-grade React application serving 12-person operations team. Built internal tools with the same partner-quality standards.

Senior Lead Software Engineer, ButcherBox | Boston, Massachusetts **Jul 2019 – Feb 2022**

Tech Stack: Kubernetes, Helm, Docker, Event-Driven Arch, Microservices, Azure, TypeScript, CI/CD, GitHub Actions, Zendesk

- **Team Building from Zero:** Built Operations engineering team from 0 (solo) to 9 engineers, then broke it into specialized squads—Operations backend, CS Support (Zendesk dashboard app), and API migration. Transitioned to lead all 3 teams (12 engineers total).
- **Platform Scale:** Led teams processing \$2B+ in transactions while scaling platform 100x over four years, handling 50% month-over-month order volume spikes during COVID hyper-growth.
- **Reference Platform:** Built platform recognized internally as the benchmark for Testing, Stability, Documentation, and Innovation. Other teams pointed to it when explaining what good looked like.

Principal Engineer, Janeiro Digital | Boston, Massachusetts

Jan 2019 – Apr 2019

Tech Stack: Solid Protocol, React, Node.js, Decentralized Web

- Rescued failing insurance platform 6 months behind schedule by restructuring architecture and coordinating 6-8 remote developers—delivered on-time with zero regulatory compliance issues.
- Delivered real-time quoting engine handling complex state-specific regulations for all 50 states, processing quotes in under 2 seconds across 200+ rule variations.
- Coordinated blended remote/on-site team under pressure, maintaining stakeholder confidence through transparent communication and consistent weekly delivery milestones.

VP of Engineering & Lead Systems Architect (Founder), O2O HQ | O2O Global Marketplace | American Fork, Utah

Jun 2015 – Nov 2018

Tech Stack: AWS, Aliyun, PHP, Rest API, Fintech

- **0-to-1 Cross-Border Platform:** Founded and scaled marketplace from Zero-to-One serving complex trade flows between China and the U.S. Distributed architecture spanning AWS (US) and Aliyun (China), solving Great Firewall latency for seamless partner experience.
- **Partner Integration Engine:** Architected unified logistics engine integrating 8+ international providers, automating bonded/free-trade import logic across 3 countries. Partners integrated once, shipped everywhere.

Founder & Principal Solutions Architect, Antic Solutions | Springville, Utah

Jan 2013 – Jun 2017

Tech Stack: Node.js, Angular, PHP, E-commerce

- **Fractional CTO for External Partners:** Operated as engineering leader for multiple clients including NewBalance.com. Understood partner needs, architected solutions, and enabled their success.
- **Performance Engineering for Partners:** Directed NewBalance.com performance initiatives improving speed and conversion. Measurable partner outcomes through technical consulting.

Senior Software Engineer & Team Lead, Modernized Media | Draper, Utah

2014 – 2015

Tech Stack: Marketplace APIs, Automation, SQL

- Led development of multi-channel sales automation achieving +1,700% YOY sales and -44% overhead reduction (shipping -44%, labor -17%) within 1 month of deployment.
- Designed centralized inventory orchestration engine integrating Amazon, Overstock, NewEgg, and 6+ additional marketplaces into unified platform.

Software Engineer, InsideSales.com | Provo, Utah

Jul 2014 – Oct 2014

Tech Stack: AngularJS, Symfony 2, Doctrine, PHP, Salesforce, Git

- Delivered the only two new features for PowerStandings in 90 days while prior developers performed only maintenance—demonstrating high productivity in short tenure.
- Implemented linter, test pass requirements, and minimum coverage commit blockers—establishing code quality gates that raised engineering bar for entire team.

EDUCATION

Computer Software Engineering

Utah Valley University

2010 - 2013

Associate's Degree, Pre-Professional Associate in Science

Utah Valley University

2007 - 2009

PATENTS

Optimized Caching and Updating of Custom Assets RSS Algorithm (2012)

Process Patent for a native asset caching system that significantly improved load speeds across fragmented mobile platforms.

HONORS & AWARDS

Eagle Scout + 3 palms | New Century Scholarship | Dean's List