
SUMMARY

Staff Systems Architect who turns systems that don't move into ones that fly. I build AI that takes the work engineers hate and makes it disappear.

Core Skills: AI Systems Architecture, Agentic Platforms, Legacy Modernization, Model Context Protocol (MCP), Platform Engineering, Developer Experience (DevEx)

Tech Stack: Generative AI, Kubernetes, AWS, React, TypeScript, Node.js, PHP, Angular

Practices: DORA Metrics, Strangler Fig Pattern, Event-Driven Architecture, Microservices, CI/CD, Agile/Scrum

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

- **AI Migration System:** Built multi-agent AI system with 5 specialized sub-agents automating 90% of migration code generation. 289 API endpoints migrated at 96% production traffic, hours of manual work reduced to under 10 minutes per endpoint.
- **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.
- **QA from Zero:** Built 0 to 1,500 automated test cases driven by business requirements, not AI-generated boilerplate. Deployment confidence that didn't exist before.
- **AI Governance:** After an AI agent broke production by modifying AWS routing tables, designed read-only AI accounts, DevOps approval workflows, and failure-as-state design principles.

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

- **AI Pioneer:** Drove GPT-3 adoption in 2022 (pre-ChatGPT), automating support workflows and saving ~2 hours/week/employee with NPS 57. One of the earliest enterprise GPT deployments.
- **Flagship Integrations:** Single-handedly led Instacart integration end-to-end, then led Shopify migration. Advised executive leadership on platform roadmaps and build-vs-buy decisions.
- **CS Support Platform:** Transitioned proof-of-concept Zendesk dashboard into production-grade React application serving 12-person operations team.

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

- Built Operations engineering team from 0 (solo) to 9 engineers, then broke it into specialized squads: Operations backend, CS Support (Zendesk dashboard app), and backend API migration team.
- Transitioned to lead all 3 teams simultaneously—12 engineers total across Operations, CS Support, and API migration—with clear ownership and delivery accountability.
- Engineered backend optimizations handling 10x traffic surge during COVID with zero scaling incidents, while competitors experienced significant downtime.

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

- Designed distributed architecture spanning AWS (US) and Aliyun (China), solving 'Great Firewall' latency and enabling seamless cross-border e-commerce.
- Architected unified logistics engine integrating 8+ international providers, automating bonded/free-trade import logic across 3 countries.

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

Jan 2013 – Jun 2017

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

- Secured and executed multiple NewBalance.com contracts, directing performance engineering that improved page load times 40% and increased conversion rates measurably.
- Operated as Fractional CTO for 5+ enterprise clients simultaneously, managing end-to-end SDLC and establishing engineering standards that outlasted engagements.

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

2010 - 2013

Utah Valley University

Associate's Degree, Pre-Professional Associate in Science

2007 - 2009

Utah Valley University

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