

Matthew Walther

Principal Software Engineer | Product & Technical Strategy

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PROFESSIONAL SUMMARY

Principal full-stack engineer and product-minded technical leader with 10 years of experience building and modernizing SaaS platforms in regulated and research-driven environments. Combines applied-mathematics rigor with pragmatic product judgment to take complex systems from discovery through reliable production delivery. Known for creating clarity across engineering, customers, and operations; whether defining architecture, improving delivery practices, or applying agentic AI to eliminate manual work. A lifelong builder who continues to explore the craft through open-source work, personal projects, and hands-on experimentation beyond day-to-day product delivery.

TECHNICAL SKILLS

Languages & Frameworks: Python, PHP, Node.js, TypeScript, SQL, Bash, React, JavaScript

AI & Agentic Systems: Ollama, OpenClaw, local and cloud models, RAG pipelines, vector databases, prompt engineering, architectural decision records

Cloud, DevOps & Systems: AWS, GCP, Kubernetes, Docker, Terraform, GitLab CI/CD, distributed systems, microservices, REST/gRPC APIs, MQTT/PubSub, WebRTC, SIP

Data & Developer Tools: PostgreSQL, SQLite, Redis, NoSQL, Tailwind CSS, GitLab

PROFESSIONAL EXPERIENCE

OpenTHC, Inc. — Seattle & Remote | *Principal Software Engineer (FTE)*

MAY 2018 – PRESENT

- **Scalable Architecture & Compliance:** Lead end-to-end delivery of a multi-tenant B2B compliance SaaS tracking and selling over 50M retail-ready units per month. Supports hundreds of supply-side production, manufacturing, and lab clients across 8 U.S. states.
- **Multi-Tenant Infrastructure:** Architected a robust, compliance-grade tenant isolation model segmenting sessions by license and organizational unit, utilizing a secure database-per-tenant architecture under the hood.
- **Engineering Leadership & Mentorship:** Mentored cross-disciplinary contractors and technical writers while scaling the core engineering group to a highly collaborative 5–6 person team. Established daily triage, product-strategy sessions, and a rich internal writing culture.
- **Reliability & Support Impact:** Established automated testing and CI/CD pipelines to resolve over 80% of new issues within strict criteria. Drastically reduced software regressions, enabling the company to scale back full-time telephone support to a part-time function.
- **Pragmatic Product Strategy:** Leveraged Lean Product Development and Lean Canvas methodologies to run low-effort, high-value experiments, identifying 80/20 solutions before dedicating heavy engineering resources.
- **AI & Operational Acceleration:** Deployed an OpenClaw agentic AI software factory integrated with GitLab and tracking systems, successfully freeing up engineering velocity to support sales priorities. Integrated AI tools into a phone-support CRM to cut agent recovery time by 75%.
- **Customer Obsession:** Initiated customer-facing webinars to surface actionable product feedback and strengthen the connection between customer needs and engineering priorities.
- **Leadership & Discipline:** Established daily triage and product-strategy sessions, cultivating a stronger writing culture and more deliberate technical decision-making across the team.
- **Initiative on High-Value Opportunities:** Authored comprehensive technical proposals for 10 state-government projects, connecting product capabilities, implementation detail, and customer requirements.

Discuss.IO — Seattle | *Full-Stack Software Engineer (FTE)*

AUGUST 2016 – MAY 2018

- **High-Growth SaaS Execution:** Served as a critical early contributor during a high-growth Series A phase, helping scale the platform to secure and support 10 Fortune 500 enterprise clients.
- **Organizational Scaling:** Onboarded and trained incoming developers as the engineering team grew from 3 to 12+ developers, plus incoming VP of Engineering and Product Manager roles. Served as the primary bridge transfer of technical knowledge from the founding CTO.
- **AWS Migration & Scale:** Migrated a legacy system comprising multiple load-balanced web applications, SIP dial-in, and WebRTC services to a modernized, scalable AWS architecture using Docker and Terraform. Reduced service provisioning times from days down to seconds.
- **Real-Time System Refactoring:** Eliminated peak-usage service degradation by refactoring the real-time queue system from Redis PubSub to a highly resilient RabbitMQ MQTT architecture. Kept critical, collaborative shared-whiteboard and paired video-streaming capabilities rendering in real-time under heavy load.
- **Pragmatic 80/20 Infrastructure:** Postponed complex queue migrations during a critical sales window by demonstrating that scaling Redis via redundant instances would successfully support immediate customer demands.
- **Modernized Release Velocity:** Shifted the team from a highly gatekept, slow, stakeholder-approved release process to a modern automated testing and continuous-deployment workflow.

SELECTED INDEPENDENT & OPEN-SOURCE WORK

- **Open-source practice:** Maintains an active GitHub presence across 50+ repositories, including public work on common data models and APIs for cannabis software. Uses open-source development to deepen systems, tooling, and product-design practice.
- **Early-stage product work:** Provides hands-on technical and product guidance for an early-stage service-provider marketplace, applying the same customer-centered thinking that informs his principal-engineering work.
- **Applied research — Image Tampering Detection:** Undergraduate researcher and developer of a digital-image-forgery detection system with the SDSU Department of Mathematics and Statistics. Used Python, C/C++, MATLAB, and UNIX.
- **Personal software projects:** 20-year track record of building projects ranging from a web-based punch-clock system using Node.js and MongoDB to retail software and online team-management tools—reflecting a long-running habit of learning by building.

EDUCATION

San Diego State University | *Bachelor of Science, Applied Mathematics*

AUGUST 2014 – MAY 2016

SDSU Math Club; 2014 and 2015 Putnam Exams; Industrial Mathematics Research Project; Computational Modeling