Patrick O'Sullivan

Senior Software Engineer | AI Agents & Full-Stack Systems

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Senior software engineer with 8+ years shipping production software in small teams. Built a cross-platform messenger and AI agent integrations across frontend, backend, security, and testing.

EXPERIENCE

Tlon Corporation Remote
Software Engineer March 2022 - Present

1,300+ merged pull requests across Tlon repositories.

- Led development of Tlon's OpenClaw plugin and an adapter for Hermes, a second agent runtime, supporting messaging, media, tools, and conversation context.
- As a founding frontend engineer, built Tlon Messenger's web client and subsequent React Native app for iOS, Android, and web.
- Implemented agent permissions and approval flows, prompt-injection sanitization, DM allowlisting, and owner-only controls.
- Built agent infrastructure for conversation context, background tasks, and recovery across TypeScript and Python runtimes, plus Hoon backend services for bot liveness monitoring.
- Developed end-to-end testing, model evaluation, and observability tools to verify agent behavior and automate error triage.

Headway Remote
Senior Developer June 2019 - March 2022

- Sole full-stack developer for Spotify's greenfield legal tooling application; built Next.js UI and API routes, integrated data-lake APIs, and deployed to Kubernetes.
- Technical lead for Ritual's native SwiftUI iOS app for in-store employees.
- Built logistics dashboards and GraphQL services for Breakthrough Fuel using React, Node.js, and PostgreSQL; delivered Next.js/Java and React Native products for other clients.

University of West Florida Pensacola, FL
Software Engineer October 2017 - June 2019

- Built Academic Affairs SaaS applications end to end using React, TypeScript, Node.js, SQL, and Docker; replaced legacy ColdFusion systems, working independently or on two-person teams.

EARLIER EXPERIENCE

Business Analyst | Institute for Humane Studies at George Mason University | 2012 - 2015

TECHNICAL SKILLS

Languages and frameworks: TypeScript, Python, JavaScript, Hoon, Node.js, React, React Native, Next.js
AI and agents: OpenClaw, OpenAI API, Anthropic API, OpenRouter
Infrastructure and data: Docker, Kubernetes, PostgreSQL, SQL, GraphQL, REST, SSE
Testing and observability: Jest, Playwright, Maestro, integration/end-to-end testing, Sentry, PostHog, Loki

EDUCATION

Florida State University 2008 - 2011
Bachelor of Science in Economics