

BRADLEY ALLAN DAVIS

AI-Native Senior Software Engineer

@ hire@bdavis.ai bdavis.ai BradleyAllanDavis BradleyAllanDavis St. Louis, MO

SUMMARY

Senior backend engineer with 7+ years building scalable, event-driven payment and platform systems in Java, Spring, and Kafka. Now builds on that foundation with MCP servers and agentic development workflows that put AI to work in real systems.

EXPERIENCE

OKX Mar 2022 – May 2026 Remote, USA

Senior Software Engineer – Fiat Payments Platform

- Led Project Catalyst, the platform’s largest architectural effort, decomposing the payment-orchestration monolith into **five independently deployable modules** with semver-governed contracts, enabling parallel team ownership and lower-risk releases.
- Drove team adoption of AI-assisted development, using agentic coding tools for large-scale work including a **JUnit 5 migration across ~1,100 test files** and the Catalyst decomposition.
- Built the shared payments library from scratch as tech lead (Temporal workflows, alerting, notifications, OpenTelemetry, core utilities), **adopted platform-wide**.
- Built the platform’s internal and external reconciliation engines: Kafka-based event processing, multi-region scheduling, 1-to-N status mapping, and automated alerting, reconciling **millions of transactions** across all payment providers.
- Built OpenPayd, the first channel on a new payment-gateway architecture (signature verification, account/deposit/withdrawal flows, Kafka events), establishing patterns the platform still relies on.

Intuit Feb 2019 – Feb 2022 Remote, USA

Software Engineer – QuickBooks Developer Ecosystem

- Led webhooks processing infrastructure **handling 10-20M daily notifications**, powering real-time data sync for thousands of SMB customers and third-party developers at **99.9% reliability**.
- Extended the webhooks ecosystem across QuickBooks Online, Revenue Platform, and Payroll domain events, powering QBO Advanced’s launch.

SELECTED PROJECTS

- Nix Control Plane.** A single declarative Nix repo managing five machines (macOS and NixOS), secrets, networking, and home automation. AI agents edit and deploy it daily; preflight guards abort any remote deploy from a dirty or unpushed tree.
- Self-Hosted Homelab.** Self-hosted git (Forgejo) behind a Caddy reverse proxy, DNS (Pi-hole), Home Assistant, and a media stack, backed by ZFS-replicated storage with restic backups and monitored via Prometheus and Grafana across a UniFi network.
- MCP Servers.** 10+ Model Context Protocol servers (authored and hardened third-party) exposing home, finance, and infrastructure systems as agent-callable tools, with permission-scoped writes and tamper-monitored credential reads.
- bdavis.ai.** A from-scratch personal site and writing home built with Astro, documenting agentic-engineering and infrastructure work.

AI ENGINEERING

Agent Tooling & Automation

Agentic Dev Workflows

MCP Server Authoring

AI TOOLING

Claude Code Claude Agent SDK

Anthropic API Cursor ChatGPT

Gemini

BACKEND

Java Spring Boot Kafka

MySQL Redis Temporal

REST APIs

DISTRIBUTED SYSTEMS

Event-Driven Microservices

Multi-Region Idempotency

Reconciliation

CLOUD & INFRA

AWS GCP Docker Kubernetes

NixOS Linux

DEVOPS

CI/CD Git GitHub/GitLab

ArgoCD GitOps Jenkins

Prometheus Grafana

DOMAINS

Financial Systems Payments

Fintech Accounting

EDUCATION

M.S. – Computer Science

University of Wisconsin-Madison

Sep 2015 – Dec 2018 • Madison, WI

BEYOND THE KEYBOARD

Eagle Scout, saved a life with CPR, former oilfield MWD field engineer and ski instructor.