

# BRADLEY ALLAN DAVIS

## AI-Native Senior Software Engineer

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BradleyAllanDavis

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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 largest architectural effort in the platform's history, decomposing the payment-orchestration monolith into **five independently deployable modules** with semver-governed DTO contracts, enabling decoupled team ownership, parallel development, and lower-risk releases.
- Drove the team's adoption of AI-assisted development, using agentic coding tools to deliver large-scale work including a **JUnit 5 migration across roughly 1,100 test files** and the Catalyst module decomposition.
- Built the shared payments library from the ground up as tech lead (Temporal workflow infrastructure, alerting, customer notifications, OpenTelemetry, and core utilities), **adopted by every service** across the payments platform.
- Designed and built the platform's internal and external reconciliation engines: Kafka-based event processing with multi-region scheduling, 1-to-N status mapping, and automated alerting, reconciling **millions of transactions** across all payment-provider integrations.
- Built the OpenPayd integration as the first channel on a new payment-gateway architecture (webhook signature verification, account creation, deposit and withdrawal flows, Kafka events), establishing integration patterns still used today.

#### 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 the launch of QBO Advanced.

### 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.
- MCP Servers.** 10+ Model Context Protocol servers in daily use, spanning authored (things-turbo, published) and hardened third-party, exposing home, finance, and infrastructure systems as agent-callable tools. Write paths are permission-scoped and credential reads are tamper-monitored.
- Self-Hosted Homelab.** Bitcoin and Lightning node, Pi-hole DNS, Home Assistant, and ZFS replication with restic backups across a UniFi network. Monitored with Prometheus and Grafana; agents operate the stack day to day through the same MCP layer.
- bdavis.ai.** A from-scratch personal site and writing home built with Astro, documenting agentic-engineering and infrastructure work.

### AI ENGINEERING

MCP server authoring  
Agentic dev workflows  
Agent tooling & automation

### AI TOOLING

Claude Code Cursor  
Claude Agent SDK Anthropic API  
ChatGPT Gemini

### BACKEND

Java Spring Boot Kafka MySQL  
Redis Temporal REST APIs

### DISTRIBUTED SYSTEMS

Event-Driven Microservices  
Multi-Region Idempotency  
Reconciliation

### CLOUD & INFRA

AWS Alibaba Cloud Docker  
Kubernetes NixOS Linux

### DEVOPS

CI/CD Git GitHub/GitLab  
ArgoCD Jenkins Prometheus

### DOMAINS

Payments Fintech Accounting  
Financial Systems

### 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 oil-field MWD field engineer and ski instructor.