

# ADAM DAVIES

[adamdavies.dev](https://adamdavies.dev)   adam@bath.edu   +1(504)-517-5994

New Orleans, Louisiana   ♦   Right to Work in USA (Permanent Resident)

## PERSONAL STATEMENT

---

Experienced full stack software engineer with 8+ years building scalable, production-ready systems across fintech, insurtech, and hospitality tech sectors. Specialized in Java and Node.js backends and React frontends with a proven track record of delivering both critical infrastructure and innovative features. Embraces modern development practices including LLM-assisted workflows while maintaining strong manual coding expertise. Thrives in collaborative agile environments, adept in translating complex requirements into elegant technical solutions.

## CAREER HIGHLIGHTS

---

- Designed and deployed a reusable rules engine platform using Kubernetes and Helm that became a shared service across Valstro teams, reducing implementation time for new business rules from weeks to days
- Developed Ki's renewal platform, evolving early Python scripts into an enterprise-grade system that contributed to 90%+ policy retention
- Built point-of-sale integrations at PepperHQ that secured new client relationships, including a multi-year contract with a restaurant chain of 10+ locations

## TECHNICAL SKILLS

---

**Languages:** Java, Kotlin, TypeScript, JavaScript, Python, SQL, Bash

**Frameworks:** Spring Boot, NextJs, React, Node.js, GraphQL, Kafka, Express

**Infrastructure:** AWS (Lambda, SQS, S3), GCP, Docker, Kubernetes, Helm, GitHub Actions, Terraform

**Databases:** PostgreSQL, MongoDB, DynamoDB

**Testing:** JUnit, Cucumber, KoTest

## CAREER HISTORY

---

**Valstro**, Software Engineer – Remote/New York

*Jan 2023 – March 2025*

*Java, Node.js, NestJs, GraphQL, Kafka, AWS, Kubernetes, Helm, PostgreSQL, Docker, WebSockets*

Backend-focused engineer contributing to the development of a new fintech SaaS platform. Initially specialized in API integrations for market and reference data before transitioning to an agile feature team focusing on regulatory reporting.

- Architected a reusable rules engine deployed via Helm charts in Kubernetes clusters, standardizing rule implementation across teams while enabling dynamic trader assignment for financial instruments, reducing implementation time for new business rules from weeks to days
- Delivered real-time market data service using GraphQL (packaged as containerized Docker images deployed with Helm) and WebSockets (implemented as a sidecar container to the UI application), providing millisecond-level updates for the trader UI
- Contributed to regulatory compliance architecture using Kafka for event capture, processing transaction data into reportable formats stored in PostgreSQL and generating daily batch CSV reports for regulatory submission
- Accelerated regulatory reporting performance by over 70% through pipeline optimizations, including early filtering of ineligible trades, data caching, and refined query strategies

**Ki Insurance**, Full Stack Engineer – Remote/London

*April 2021 – Dec 2022*

*Kotlin, Spring Boot, Java, TypeScript, React, GCP, Docker, GitHub Actions, PostgreSQL, MSSQL, Python*

Core contributor to an insurtech platform that digitized commercial insurance underwriting. Worked across the full stack to enhance the broker experience and improve operational efficiency.

- Fast-tracked development for V2 Release by implementing Python automation scripts that streamlined renewal quote processing

- Expanded renewal capabilities to support broader product coverage through working end-to-end on Kotlin microservices and React interfaces
- Led infrastructure improvements enabling zero-downtime deployments across services
- Developed an administrative configuration layer for centralized settings and system flags
- Collaborated directly with brokers to build a customizable CSV export engine for legacy data systems

**PepperHQ**, Full Stack Developer – Remote

March 2019 – April 2021

TypeScript, Node.js, React, AWS (Lambda, EC2), PostgreSQL, MongoDB, DynamoDB

Developed digital ordering and loyalty solutions for the hospitality industry. Focused on expanding integration capabilities to support a growing client base of restaurant chains.

- Built secure OAuth authentication service for integration with client POS systems
- Delivered integrations with two major POS providers that secured new clients, including a multi-year contract with a 10+ location restaurant chain
- Developed merchant-facing menu customization features with a Node microservice and React admin page
- Introduced touch-based loyalty functionality via Snowshoe SDK integration
- Improved loyalty reward accuracy through enhancements to order calculation logic

**Morgan Stanley**, Technology Associate – London

Nov 2017 – March 2019

Java 8, Spring Boot, Cucumber, JUnit, Git, Jenkins, DB2, Splunk

Member of a regulatory technology team that built critical reporting systems for over-the-counter (OTC) transactions to meet global compliance requirements

- Enhanced regulatory reference data systems by extending core caching microservices
- Contributed to the development of asynchronous Java microservices for real-time compliance reporting, using event-driven architecture to process high-volume regulatory data for MiFID II and SFTR
- Linked Python-based tools with Jira to streamline tracking of technical and business issues

**Morgan Stanley**, Technology Analyst – London

June 2015 – June 2016

Java, Spring, GemFire, Python

Industrial placement year focused on reference data infrastructure modernization

- Created a scalable reference data microservice supporting multiple regulatory systems
- Spearheaded team-wide Git migration and introduced automated Python-based black-box testing

**SupplierSelect**, Software Developer Intern – Holt

Summer 2014

Python, Flask, React

- Contributed to backend modernization by helping migrate from a Java monolith to Python-based microservices
- Strengthened platform security by detecting and resolving XSS/CSRF vulnerabilities

EDUCATION

**The University of Bath - BSc (Hons) in Computer Science**

2013 – 2017

Upper Second-Class Honours (3.7 GPA equivalent)

VOLUNTEERING AND INTERESTS

- **Board Member, Bike Easy** - New Orleans bicycle advocacy group promoting sustainable transportation, safer streets, and community cycling education
- Previously a technology mentor for high school computer science programs in London
- Enjoy long-distance running, exploring cities and trails by bike, kayaking the bayous around New Orleans, and seasonal ski trips
- Remote work experience includes three years traveling throughout Europe, excelling in my roles while exploring diverse cultures and environments