

KAVON KOWSARI

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PROFESSIONAL SUMMARY

Senior Software Engineer with 10+ years architecting resilient, scalable systems for enterprise SaaS and regulated domains. I design event-driven microservices that handle millions of daily transactions while maintaining 99.9% uptime SLAs, the kind of reliability complex systems demand. Deep expertise in C#/.NET Core, with hands-on Go experience across backend services and tooling, and production experience across Kafka, event-driven workflows, and Kubernetes-managed infrastructure. I establish system design excellence, resolve production incidents under pressure, and lead technical teams to ship high-impact features end-to-end. Use GitHub Copilot and Claude AI to accelerate delivery without sacrificing quality.

CORE SKILLS

- **Languages and Frameworks:** C#, .NET Core, Go, Python, TypeScript, JavaScript, SQL
- **Backend & APIs:** REST Microservices, ASP.NET Core, Gin, API Gateway
- **Distributed Systems & Messaging:** Apache Kafka, Event-Driven Architecture, Event Sourcing, Saga Pattern, Distributed State Machines, Message-Driven Architecture
- **Data & Caching:** PostgreSQL, Redis, SQL Server, Query Optimization, Schema Design
- **Security & Identity:** OAuth2, JWT, MFA, Authentication/Authorization Services, Enterprise IAM Integration
- **Infrastructure & DevOps:** AWS, Kubernetes, Docker, GitHub Actions, Jenkins, CI/CD Pipelines
- **Observability & Incident Management:** Dynatrace, Splunk, Structured Logging, Distributed Tracing, Health Monitoring, Production Incident Response
- **AI-Assisted Development:** GitHub Copilot, Claude Code, Kiro, MCP Servers, AI Agents, Context Engineering, Agentic Workflow Orchestration
- **Testing & Quality:** xUnit, MSTest, Moq, Postman, Integration Testing, TDD

PROFESSIONAL EXPERIENCE

Lead Application Developer

ADP (Automatic Data Processing) | Louisville, Kentucky | February 2020 - July 2026

Total Absence Management (TAM) Platform — An 8-service C#/.NET microservices system managing leave and absence workflows for thousands of Fortune 500 employers, built with event-driven architecture and processing millions of daily compliance records.

- Architected event-driven architecture across 8 distributed services using Kafka-backed messaging, enabling platform scaling to thousands of enterprise clients and 3x client expansion.
- Engineered caching and data synchronization layers reducing p99 latency by 40% and database load by 35%; designed REST APIs with event-driven synchronization sustaining 99.9% uptime and millions of daily records across a multi-tenant SaaS platform.
- Led cloud-native migration of 4 microservices from .NET Framework to .NET Core, establishing CI/CD pipeline automation and containerized deployment processes across a regulated multi-tenant platform.
- Built platform-wide observability infrastructure using Dynatrace APM, Serilog-based structured logging, and Splunk log aggregation, cutting incident diagnosis time from 45+ minutes to under 15 minutes across 8 distributed services.
- Led enterprise incident response under SLA pressure; diagnosed and resolved distributed state machine defects spanning 3 services through event-sourced log analysis, reducing mean time to resolution by 35%.
- Extracted leave policy microservice from a legacy monolith, implementing an independent caching layer and dual-system-of-record synchronization; eliminated cross-service deployment coupling and enabled independent release cycles for the leave domain.
- Architected and built a standalone authentication/authorization microservice owning the entire AUTH domain for all 8 TAM services; integrated with ADP's enterprise IAM service for access control, using OAuth2, JWT, and MFA to secure feature- and function-level access platform-wide.

Intermediate Software Developer

LG&E (Louisville Gas and Electric) via TekSystems | Louisville, Kentucky | October 2016 - February 2020

- Authored the organization's 5-year technology roadmap adopted across IT departments, establishing the migration path from legacy monolithic systems to distributed microservices architecture.

- Architected backend systems for enterprise mobile and GIS-integrated field operations; designed secure document ingestion infrastructure with role-based access controls supporting field crew deployments across the service territory.
- Built real-time server-to-client communication using WebSockets for field worker dispatch coordination; implemented geo-spatial offline-capable mobile operations, delivering sub-second state synchronization across distributed field devices.
- Mentored junior developers through code review and design discussions while developing expertise in OWASP Top 10 compliance and secure coding; identified and remediated 8+ security vulnerabilities in internal frameworks.

Software Engineer

Redeapp Productions LLC | Louisville, Kentucky | January 2015 - October 2016

- Maintained C#/.NET backend systems supporting 45,000+ active users across a multi-tenant SaaS platform; implemented 12+ REST APIs, optimized SQL Server stored procedures, and executed SOLID-based refactoring improving code maintainability and deployment velocity under agile delivery cycles.

Programmer (Co-Op)

United Parcel Service (UPS) | Louisville, Kentucky | May 2012 - May 2013

- Developed message queue middleware serving 8+ internal web applications, establishing async communication patterns for distributed system coordination; migrated legacy .NET application to 64-bit server architecture, improving performance and enabling scalability for high-volume operations.

EDUCATION

Master of Engineering, Computer Engineering and Computer Science

University of Louisville | Louisville, Kentucky | 2015 - 2018

Bachelor of Science, Computer Engineering and Computer Science

University of Louisville | Louisville, Kentucky | 2007 - 2014