Jamie McLaughlin

Senior Software Engineer · .NET · Mobile · Regulated Production Platforms

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SUMMARY

Senior .NET and mobile engineer with 13 years building and running production systems where downtime has legal consequences. Nearly a decade on J. J. Keller's Encompass ELD, a federally regulated fleet-compliance platform processing about 10 million events a day at a 99.9% uptime target. Today I build and operate CrushThisCourse end to end as its sole engineer, shipped to the App Store and Google Play.

SKILLS

Languages	C#, T-SQL, TypeScript / JavaScript, Swift, Objective-C, Java, Kotlin
Frameworks	.NET 8/9, ASP.NET Core, .NET MAUI, Xamarin, Entity Framework, FastAPI, Next.js / React
Data and cloud	SQL Server, PostgreSQL, Azure (Cosmos DB, Blob Storage, Service Bus, DevOps), Docker, Fly.io, Vercel, Cloudflare
Delivery	CI/CD (Azure DevOps, GitHub Actions), App Store and Google Play releases, feature flags, Sentry, Crashlytics, PostHog
Regulated domains	Transportation compliance (FMCSA ELD / HOS, Canadian ELD Mandate), healthcare (HIPAA, ICD-10), mortgage servicing

EXPERIENCE

904 Software LLC · Founder and Software Engineer — Mar 2025 - Present

Neptune Beach, FL (Remote)

- Build and run CrushThisCourse, a race-strategy platform for endurance athletes, as sole engineer: .NET MAUI iOS and Android app, Python / FastAPI API, PostgreSQL, Next.js web, Stripe subscriptions, deployed on Fly.io and Vercel. Shipped to the App Store and Google Play.
- Built its race-prediction engine on historical results across swim, bike, and run, plus course-aware bike power pacing.
- Took the app from first commit to App Store approval in 17 days. Own CI/CD, releases on both stores, monitoring (Sentry, PostHog), and production database operations.
- Contract, Dec 2025 to Mar 2026: built native iOS and Android apps for a Ruby on Rails platform with Hotwire Native, including GPS and push-notification bridges and both store submissions.
- Contract, Jan to Feb 2026: moved an AI transcription product from cloud APIs to local models (Ollama, Faster-Whisper, speaker diarization) for edge deployment, with schema-validated outputs.
- Contract, 2026: architecture assessment and working modernization demo for a music-tech startup's legacy PHP / Laravel platform.

J. J. Keller & Associates · Senior Developer, Mobile and Platform

Aug 2015 - Feb 2025

Remote · Encompass ELD: ~10M events/day, 99.9% uptime target, 10,000+ motor carriers, SQL Server with ~1.8B rows

- Foundation engineer on the 4-person team that consolidated separate native iOS and Android codebases into one .NET MAUI app (40 to 50 regulated screens) over 18 months, rolled out behind feature flags with no production disruption. Test coverage rose from about 30% to 80%.
- Owned the iOS features for Canadian ELD Mandate certification (Personal Conveyance, Yard Move, operating zones, odometer units, event checksums). J. J. Keller passed third-party certification while several competitors did not.
- Traced a checksum defect in a SQL Server stored procedure that was failing FMCSA data-transfer validation for all customers, and fixed a silent lost-records bug in a REST service with DOT audit impact.
- Led the VT100 / Xirgo telemetry integration (BLE and RF hardware) from Android to iOS; took over the Encompass ELD release process in 2023; mentored junior engineers.
- Rated Outperforming in 2023; 2024 delivery ran 37% above the senior-developer target at a quarter of the target defect rate. Left in 2019 and was recruited back in 2020 for the platform modernization team.

gEHRiMed · Senior Software Developer

Jan 2015 - Aug 2015

Asheville, NC

- Delivered the ICD-10 integration alone ahead of the October 1, 2015 federal deadline (14,000 to 70,000 codes), so customers kept Medicare and Medicaid billing.
- Full-stack .NET MVC work on an ONC-certified EHR, including HIPAA-regulated e-prescribing.

Black Knight Financial Services (formerly Lender Processing Services) · Software Engineer

Apr 2013 - Jan 2015

Neptune Beach, FL

- Built and deployed the Bank of America-sponsored Litigation Module, a regulatory remediation platform, to multiple regional banking clients.
- Built code-generation tooling adopted across the ~20-engineer Data and Analytics team; designed SQL Server models for mortgage data at tens-of-millions-of-records scale.

EDUCATION

B.B.A., Business Administration and Management · Flagler College
A.A. · Tallahassee State College