

Michael Gehring

Software Developer & AI-Native Product Studio Founder

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SUMMARY

Software developer with 30+ years building end-to-end systems across web, mobile, desktop, data, and cloud — almost always on data and infrastructure I own. I have shipped owned-data products since 2006, from SEO directory networks to a continental freight-intelligence stack, and most recently put AI at the core of transportation software (model selection, token and cost analysis, prompt testing, and prompt-injection defense). I am also a CDL-A driver who spent two years hauling Arms, Ammunition & Explosives for the U.S. Department of Defense with a Secret Clearance and TWIC. I know freight from the driver's seat to the codebase.

CORE SKILLS

Languages	C#, .NET, Kotlin, Swift, Java, TypeScript, JavaScript
Web	ASP.NET Core, Blazor, Razor, REST APIs, GraphQL, Identity / Duende IdentityServer, Bootstrap
Mobile	Kotlin Multiplatform, Jetpack Compose, SwiftUI, .NET MAUI, Flutter, Xamarin
Data	Microsoft SQL Server, PostgreSQL, PostGIS, DynamoDB, SQLite, Entity Framework
Cloud / DevOps	AWS (Lambda, EC2, S3, SES, SNS, Route 53), Docker, Docker Compose, Docker Swarm, Raspberry Pi, GitHub Actions, TeamCity
AI	LLMs and agents, RAG, MCP servers, Claude Code, prompt testing, prompt-injection defense, model and token-cost analysis
Geospatial	OpenStreetMap, Valhalla routing, map-tile serving, geocoding
Payments	Authorize.Net, Stripe, Square, PayPal, freight factoring providers

EXPERIENCE

I1 Software2025 – Present

Founder & Principal Engineer — AI-native product studio

- Built an AI-integrated Transportation Management System (TMS) with 40+ third-party integrations, plus AI broker outreach and carrier vetting (freightwranglers.com, freightbrokerleads.ai).
- Shipped an offline-first truck GPS app (Kotlin Multiplatform, iOS and Android) with on-device map tiles, routing, and geolocation for 251 million North American addresses; routes truck-legal with zero signal.
- Own the data moat: 30M+ business records, national carrier records, and ~500,000 overpass clearances verified by AI vision. Ships an MCP server in every product so an AI can operate it.
- AI engineering discipline: model selection, token and cost analysis, prompt testing, and prompt-injection defense.

Yoder Grain2025 – 2026

Software Developer · Network Administrator · CDL-A Driver

- Built appointment-management, grain-management, and operations-planning software plus websites.
- Administered the remote-access network, camera systems, and VoIP.

Tri-State Motor Transit Co

2023 – 2025

CDL-A Driver, DoD Arms, Ammunition & Explosives — with concurrent independent software

- Hauled AA&E for the U.S. Department of Defense and high-security aerospace loads across 49 states and half of Canada. Secret Clearance, Passport, TWIC. Van, flatbed, tanker. Clean driving record.
- Built software concurrently from the road (team-driving nights): self-taught OpenStreetMap and map-tile serving (the foundation of the truck-navigation stack) and an options-trading algorithm on the Interactive Brokers API (paper account) that scores contracts and places orders.
- Ran a distributed crawl fleet from the truck over mobile networks, feeding the owned data moat.

Rural Sourcing Inc

2020 – 2023

Mobile Practice Consultant — Agile / Scrum

- iOS (Swift, SwiftUI), Android (Java, Kotlin, Jetpack Compose), cross-platform (Flutter, Xamarin, .NET MAUI); Docker, Duende and IdentityServer 4, .NET.
- Used bench time for deep self-directed upskilling (extensive Pluralsight) across mobile, cloud, and backend. Earned AWS Certified Cloud Practitioner.

Earlier — Service Quote Pro, 2 Guys Tree Service, owned-data / SEO

2001 – 2020

Founder · Consultant · CDL-A Driver

- Service Quote Pro (now MyBizEZ): a field-service management platform grown from software built to run my own tree company; first mobile apps, much of it written while driving at Crete Carrier (2018–2019).
- 2 Guys Tree Service (founder, 2010–2017): took it to #1 on Google locally and sold it with its management software.
- Owned-data / SEO businesses since 2001: .NET and web starting as a church network administrator; Google-certified AdWords professional; built directory networks on aggregated datasets (the origin of today's 30M-business data moat).

SELECTED ENGINEERING HIGHLIGHTS

- 251M-address offline geocoder and router — broader coverage than OpenStreetMap or OpenAddresses; truck-legal routing from Chiapas to Alaska, fully on-device.
- AI-vision overpass verification — validated clearance on nearly half a million North American overpasses using computer vision on street imagery.
- Distributed data aggregation — a recursive domain generator and multi-threaded crawler covering 80M+ websites, with proxy, captcha, and user-simulation infrastructure at scale.
- National Lead-Management / CRM / POS platform — built from scratch: OAuth and IdentityServer 4, Twilio, AWS SNS/SES, and multiple payment gateways.
- Algorithmic trading — migrated an Interactive Brokers strategy from Python to C#.

CERTIFICATIONS & CLEARANCES

AWS Certified Cloud Practitioner | Secret Clearance | TWIC | CDL-A | U.S. Passport

Off the clock: what I do for fun is find new problems and solve them with a keyboard and mouse.