

CIRO GRIFFITHS

Software Engineer | Backend & Distributed Systems | APIs, Event-Driven Systems, Cloud Platforms

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Portfolio: <https://cirogriffiths.com> | GitHub: <https://github.com/Ciro1690>

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SUMMARY

Engineer building the “*nervous system*” for safety-critical IoT platforms. Focused on scalable distributed systems, low-latency data flow, and production reliability, with hands-on ownership from design through incident response. Experienced integrating Generative AI into production pipelines to turn telemetry into actionable insights.

EXPERIENCE

Software Engineer II - Lytx | September 2021 - January 2026

- Designed and operated backend services processing **~4 million vehicle safety events** per week from a global fleet of **1M+ devices connected devices**, ensuring high availability in production.
- Contributed to the design and rollout of a new event creation pipeline that reduced end-to-end event availability to **~1 minute**, enabling near-instant safety alerts.
- Implemented and productionized a Fatigue Detection system handling over **10,000 high-priority safety events** with a **7-minute SLA**, maintaining full compliance with operational and customer safety requirements.
- Built secure **trial-phase Coaching Assist pipeline for ~70,000 drivers**, transforming telemetry into generative AI inputs using AWS Bedrock and Llama to deliver AI-driven coaching insights

TECHNICAL SKILLS

Backend & Distributed Systems: C#, .NET Core, Node.js, Python, REST APIs, Microservices, Kafka

Cloud & DevOps: AWS (EC2, S3, Lambda, Bedrock), CI/CD pipelines, Jenkins

Data: PostgreSQL, DynamoDB, MongoDB, SQL Server

Frontend: Angular, React, JavaScript/TypeScript, HTML, CSS

Tools & Practices: Event-Driven Architectures, Monitoring & Alerting, Git, Jira

EDUCATION & CERTIFICATIONS

AWS Certified Cloud Practitioner | July 2025

Web Development - Springboard | November 2020 - July 2021

Bachelor of Science in Neuroscience - Union College, Schenectady, NY | 2008 - 2012

Magna Cum Laude | Minor: Mandarin | Scholar's Program

ADDITIONAL EXPERIENCE

Volunteer Section Leader (Python) — Code in Place (Stanford University) | 2021–2025 (3 cohorts)

Sous Chef - Vernick Fish at the Four Seasons & Vernick Food & Drink | 2017 - 2020

Meditech - Applications Specialist, Westwood, MA | 2012 – 2014