

Ryan Carroll

Data & Analytics Engineer • Healthcare Technology • Machine Learning

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PROFILE

Healthcare-technology engineer who turns live data into decisions. Former CoverMyMeds engineer who built and owned client-facing data applications, ETL pipelines, and analytics for 1,000+ weekly users in the medication-access domain. M.S. in AI & Machine Learning and AWS ML – Specialty, with strengths in advanced SQL, Python, visualization, and turning analysis into clear stories for clients — based in the Columbus, OH metro.

CORE SKILLS

Data & Analytics: Advanced SQL (PostgreSQL, Oracle, SQL Server), Databricks, Spark, ETL pipeline design, data modeling, ActiveRecord

Data Science & ML: Python, machine learning & predictive analytics (M.S. AI/ML, AWS ML – Specialty), scikit-learn, NLTK, spaCy, OpenAI Whisper

Visualization & Reporting: Grafana, Chart.js, Excel, dashboards & KPIs; product analytics (Ahoy, Fullstory, LogRocket, Google Analytics)

Cloud & Platform: AWS (S3, Lambda, API Gateway), Azure, Kubernetes, Docker, Datadog, New Relic, Splunk

Engineering: Ruby/Rails, Node, Java/Spring Boot; React, Angular, Vue; CI/CD (GitHub Actions, Jenkins, Concourse)

Communication: Data storytelling, client-facing presentations, technical writing, public speaking, stakeholder management

EXPERIENCE

LEAD SOFTWARE ENGINEER, FORM HEALTH

2026 - Present

- Build and debug complex asynchronous data workflows (Sidekiq) at a healthcare company.
- Integrate third-party healthcare systems, expanding data for reporting and product features.
- Drive new client wins through rapid prototyping of data-informed features.

SENIOR SOFTWARE ENGINEER, COVERMYMEDS

2022 - 2026

- Built and owned a client-facing data application and API for 1,000+ weekly users, giving pharma clients direct insight into medication-access performance.
- Architected ETL pipelines that aggregate and ingest data into the client-facing analytics app.
- Wrote and tuned complex SQL across PostgreSQL, Oracle, and SQL Server to power client metrics and reporting.
- Delivered a research document and pipeline proof of concept to migrate on-prem data to Databricks, targeting 50% higher throughput.
- Shipped product features driven by customer needs and usage data, partnering with business stakeholders.

- Presented insights at CoverMyMeds Data & Analytics Week; integrated observability (Datadog) to improve data reliability.

CONSULTANT SOFTWARE ENGINEER, NATIONWIDE INSURANCE

2021 - 2022

- Architected an AWS-native web/data application (S3, CloudFront, CodePipeline, DynamoDB, API Gateway).
- Managed high-traffic, high-availability APIs and coordinated a cross-company chatbot effort.

SENIOR SOFTWARE ENGINEER / TECH LEAD, NATIONWIDE INSURANCE

2019 - 2021

- Maintained identity and authorization APIs (JWT, OAuth) handling 500+ requests per second.
- Led migration of 13 microservices to AWS Kubernetes, cutting costs 35%; coached teams on scaling APIs.

SOFTWARE ENGINEER, NATIONWIDE INSURANCE

2016 - 2019

- Built 13 greenfield, highly available Java/Spring Boot REST APIs and responsive web apps (Angular).
- Modernized test coverage and delivered features on a large tier-1 application.

HIGHLIGHTS & SPEAKING

- Regional tech conference speaker, CodeMash 2025.
- Data & Analytics Week speaker, CoverMyMeds — presenting data insights to internal stakeholders.
- Published author on Medium.
- User's Choice Award and Hackathon 1st Place, Nationwide Insurance.

SELECTED PROJECTS

- **ML Video Editor** — automated video transcription and insights platform (scikit-learn, NLTK, spaCy, OpenAI Whisper).
- **IoT Environment Dashboard** — real-time decibel visualizations (Python, Grafana, InfluxDB, Raspberry Pi).
- **Reading Tracker** — reading-minutes tracker with data visualization (Hugo, Chart.js).

EDUCATION & CERTIFICATIONS

M.S. Computer Science — Artificial Intelligence & Machine Learning, Western Governors University, 2026

AWS Certified Machine Learning - Specialty • AWS Certified Cloud Practitioner

Microsoft Certified: Azure Data Fundamentals • Microsoft Certified: Azure AI Fundamentals
CompTIA A+ / Network+