Ryan Carroll

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PROFILE

As a technologist with over a decade of experience, I strive to continuously improve myself and others by actively contributing to the tech community through presentations, passion projects, articles, and documentation. My primary focus areas are full-stack development, data, and infrastructure. I have done so through large-scale transformative efforts as well as driving innovation through technology and practice.

SKILLS

- Backend (Java/Springboot, Node, Ruby/Rails, Python)
- Frontend (React, Angular, Vue, Chart.js)
- Mobile (React Native, Expo)
- Data (Databricks, Spark, Postgres, Grafana, ActiveRecord, Oracle, SQL Server)
- Pipeline (Concourse, Jenkins, GitHub Actions)
- CNP (Kubernetes, Docker, Compose)
- Testing (RESTassured, jest, rspec)
- Analytics (Ahoy, Fullstory, LogRocket, GA)
- Monitoring (New Relic, Splunk, Datadog)
- AWS/Azure (S3, Lambda, API Gateway)

EXPERIENCE

SR SOFTWARE ENGINEER, COVERMYMEDS – 2022–PRESENT

- Rearchitected and rewrote a Vue application into React increasing performance and maintainability
- Planned, architected, and led critical feature work through the team
- Migrated test environment to Azure-based ephemeral environment increasing local build performance by 30%
- Build and maintain data application and API supporting 1,000+ weekly active users
- Architect and build ETL pipeline to aggregate and ingest data into client-facing application
- Researched, designed, and implemented key product features based on customer needs
- Delivered research document and schema/data pipeline PoC for migrating on-prem data pipeline to Databricks with plan to increase data throughput by 50%
- Integrated observability (Datadog, etc.) platforms and authored documentation to support maintainability
- Championed security, led efforts to bring application from acceptable to excellent security posture

CONSULTANT SOFTWARE ENGINEER, NATIONWIDE INSURANCE – 2021-2022

- Architected and built new web application using AWS-native services (S3, CloudFront, CodePipeline, Dynamo, API Gateway)
- Managed high-traffic high-availability Springboot APIs
- Coordinated development effort across companies for chatbot effort

SR SOFTWARE ENGINEER, TECH LEAD, NATIONWIDE INSURANCE – 2019-2021

- Maintained identity and authorization APIs (JTW and Oauth) handling over 500 requests per second
- Led development effort to migrate 13 microservices from PCF to AWS hosted Kubernetes with cost savings of 35%
- Coached and mentored other teams on how to build, scale use APIs

SR SOFTWARE ENGINEER, NATIONWIDE INSURANCE – 2017-2019

- Built suite of 13 Greenfield highly available Java/Spring Boot REST APIs
- Developed new responsive customer-facing websites using Angular

SOFTWARE ENGINEER, NATIONWIDE INSURANCE – 2016-2017

- Re-wrote outdated junits in Spock with mocked data
- Implemented new features and maintained large tier-1 spring boot application

ACCOMPLISHMENTS

- Regional tech conference speaker, CodeMash 2025

- Medium publisher

- Data and Analytics Week speaker, CoverMyMeds

- User's Choice Awards, Nationwide Insurance

- Hackathon 1st place, Nationwide Insurance

PERSONAL PROJECTS

TRAVEL BINGO MOBILE APP - *ROAD TRIP BINGO GAME*

- React Native, Expo, Typescript, Project Management

IOT ENVIRONMENT DASHBOARD - *GRAFANA DECIBEL VISUALIZATIONS*

- Python, Grafana, InfluxDB, RaspberryPi, Networking

ML VIDEO EDITOR - *AUTOMATED VIDEO TRANSCRIPTIONS AND INSIGHTS PLATFORM*

- NTLK, Scikit Learn, OpenAI Whisper, Spacy

READING TRACKER - *HOMEPAGE FOR TRACKING MINUTES SPENT READING*

- Hugo, Chart.js

EDUCATION

B.S Computer Information Systems – Pensacola Christian College, 2016

Microsoft Certified: Azure Data Fundamentals

Microsoft Certified: Azure AI Fundamentals

AWS Cloud Practitioner

Comptia A+/Network+