

Connor Voelk

Seattle, WA [linkedin.com/in/connorvoelk](https://www.linkedin.com/in/connorvoelk) github.com/connorvoelk

Software Engineer with 4+ years of experience at AWS and Tesla, specializing in delivering value through GenAI and Cloud platforms through production-grade architecture and intuitive product design.

Experience

Amazon Web Services (AWS)

Seattle, WA

Cloud Application Developer

January 2024 – July 2026

Translating C-suite business requirements into high-impact GenAI and cloud-native software architectures.

Agentic AI Platform

Fortune 50 Healthcare, \$1.9M contract

- Enabled thousands of internal users to deploy autonomous agents for cross-functional API tasks by architecting an enterprise platform using LangChain, AWS Bedrock AgentCore, and Model Context Protocol (MCP).
- Accelerated knowledge discovery across millions of data points by developing a GraphRAG system utilizing Amazon Neptune, Redis, and Textract to map complex semantic relationships.

Mobile Telemetry SDK

Market-Leading Satellite Provider, \$1.5M contract

- Led a team of 3 developers to build an Android Mobile SDK from the ground up, delivering a cross-platform telemetry solution for Android Auto utilizing dozens of system APIs.
- Reduced messaging costs by 3.5x and achieved sub-50ms latency by engineering a peer-to-peer networking layer using AWS IoT Core and MQTT as an alternative to traditional HTTP APIs.

Frontend Engineer, Delivery Consultant

July 2022 – January 2024

Leveraging value and impact through intuitive, high-performance user interfaces for complex backends.

ML-Driven Dashboard

Major National Media Network, \$2.0M contract

- Increased ad-slot sales by 15% on average by designing a simulation system that enabled non-technical users to model complex viewership permutations in real-time.
- Streamlined the full product lifecycle from Figma prototyping to a React.js & GraphQL production app, visualizing granular demographic data for multi-million dollar scheduling decisions.

Multi-Destination Live-Stream Orchestrator

Fortune 10 Big Tech Platform, \$1.4M contract

- Prevented the cancellation of a \$1.4M contract by rescuing a failing engagement and revitalizing the UX/UI and backend abstraction layer within a high-velocity 4-week window to restore customer confidence.
- Consolidated 8 disparate streaming destinations into a single interface, significantly reducing hardware overhead and operational complexity for broadcast engineers via AWS Elemental.

Tesla

Palo Alto, CA

Software Engineer Intern

January – June 2021

- Automated real-time data ingestion and processing for hardware-in-the-loop (HIL) testing by architecting a Python and Apache Kafka pipeline, replacing manual reporting for urgent hardware tests.
- Developed a centralized web application using React.js and Flask, featuring visualizations that enabled engineers to monitor live sensor streams and query legacy test data with sub-second response times.

Education

University of Washington

Seattle, WA 2022

Bachelor of Science in Informatics, Specialization in Human Computer Interaction

Dean's List Scholarship, iSchool Teaching Assistant, Computer Science School Research Assistant

Skills

AWS Certifications	Solutions Architect (2026), Developer (2026), Machine Learning Engineer (2026), AI Practitioner (2025)
Languages & Frameworks	Typescript / Javascript, Node.js, React.js, Python, Java, Kotlin, SQL, GraphQL, Dart (Flutter), IaC (CDK, Terraform)
Tools & Technologies	AWS, Docker, K8s, Micro-frontends, CI/CD, GraphRAG, Agent Orchestration, IoT, MCP, REST, MQTT, Figma