

Jenna Sayle

saylej@miamioh.edu | (440) 321-9896 | Oxford, OH | <https://www.linkedin.com/in/jenna-sayle/>

EDUCATION

Miami University

May, August 2023

Bachelor and Master of Science in Engineering, Computer Science, GPA: 3.6

Oxford, OH

- Relevant Coursework: Algorithms and Data Structures, Programming Systems, Distributed Systems, Discrete Mathematics, Operating Systems, Web Application Programming, Database Management Systems, Machine Learning, Advanced Data Visualization, Quantum Computing, Advanced Cryptography, Advanced Machine Learning, Graphics, Game Engine Design, Comparative Programming Languages, Experimental Design, Applied Statistic Modeling, Advanced Cryptography, Advanced Image processing and Visualization.

EXPERIENCE

Amazon

May – August 2023

Software Engineer Intern, Audience Metrics and Transparency, Amazon Ads

Boulder, CO

- Created a **Full Stack Application** for the use of my team and its customers to facilitate alarming operations.
- Worked in an extensive backend package to create new API functionality at new, secure endpoints.
- Provisioned and hosted the Application internally with an Authorization and Authentication scheme in a **React** Package.

Amazon

May – August 2022

Software Engineer Intern, Targeted Advertising, Amazon Ads

Boulder, CO

- Created a daily workflow for **Unused Audience Detection** to allow for processing time optimization in the targeted advertising workflow. Deployed rule-based approach to Beta and began testing a Machine Learning predictive approach.
- All Infrastructure involved was created automatically through code via a CDK package.
- Focused on accuracy and scalability (*Cloud Development Kit, Lambda, Dynamo DB, Athena, EMR, S3, IAM, TensorFlow*).

Amazon

May – August 2021

Software Engineer Intern, Tag Policy, AWS Platform Identity

Seattle, WA

- Created a new workflow for **Tag Compliance Report Generation** using service APIs to reduce latency of report generation and the staleness of compliance data for AWS customers by 26% according to Cloud Watch metrics. Solution deployed to Beta regions.
- Separated workflow for Tag Policy Compliance Report generation into the Tag Policy account, no longer depends upon processes running in another team, TSM.
- Focused on efficiency, frugality, and scalability, and optimized via Elastic Map Reduce services (*Cloud Development Kit, Lambda, Dynamo DB, Athena, Step Functions, EMR, Cloud Watch, S3, IAM*).

INVOLVEMENT

Women's Cross Country and Track and Field

August 2019 - Present

Student Athlete

Oxford, OH

- Dedicate 20+ hours per week to practice, race traveling, strength and conditioning, and team meetings while maintaining a full academic course load.
- Placed 7th at the MAC Outdoor Track and Field Championships in the steeplechase.

PROJECTS

- **Patient Driven Medical Synchronization** : Currently working alongside Cardinal Health and CVS pharmacy to create a patient focused protocol for synchronization of prescriptions. This solution will reduce tedious paperwork tasks of pharmacists and improve patient adherence to medicines while improving the patient experience.
- **SQL-Lite**: Created a web-hosted Database Management System which allowed users to add, remove, view and Query entries via User Interface or the Command line. Program was efficient and performant, implemented via multithreading (*C++, JavaScript, HTML*).

SKILLS

- **Programming**: Java, Kotlin, C++, Python, Type Script, R
- **Web Development**: PHP, SQL, HTML, CSS, JavaScript, React
- **AWS**: Cloud Development Kit, Elastic Map Reduce, Lambda, S3, Dynamo DB, Simple Notification Service, Step Function, Cloud Watch Event logs and Event rules, Harmony
- **Misc.:** AWS, Pandas, sklearn, Hadoop, git, tidyverse