

Ashlyn Hanson

Kansas City, MO | ashlyndhanson@gmail.com | 816-699-1903 | <https://github.com/AshlynHanson>
www.ashlynhanson.com | www.linkedin.com/in/ashlyn-hanson/

Education

Truman State University, Kirksville, MO
Bachelor's Degree in **Computer Science**, Minor in Design

May 2023
GPA: 3.9

Work Experience

SDE Intern, Amazon AWS

May - Aug 2020

- ❑ Simplified and improved operations for the Braket Quantum Computing team by setting up a single place for the on-call to see and respond to customer issues, reducing the time to customer resolution from days to minutes.
- ❑ Implemented a Python program that automated a process of the team's operations using AWS serverless architecture including, AWS Lambda, S3 Buckets, DynamoDB, CloudWatch, and CloudFormation stacks.
- ❑ Created unit tests to ensure that the program functioned effectively, with a high success rate.

AFE Software Development Engineer Intern, Amazon AWS

May - Aug 2020

- ❑ Developed a Machine Learning algorithm using AWS SageMaker that predicts the execution duration of a quantum circuit.
- ❑ Implemented a program to retrieve and parse through data using AWS tools including AWS Lambda, DynamoDB, & S3
- ❑ Utilized the command line, git, and CI/CL pipelines.
- ❑ Applied unit and integration tests as well as a metric and alarm dashboard to ensure the durability of our function.

CS Teacher Assistant and Tutor, Truman State University

2020 - Present

- ❑ Graded student assignments and papers in a timely manner while ensuring that students understood the material covered in the CS courses.
-

Skills

- ❑ **Technical Languages:** Java, C++, Python, HTML/ CSS, JavaScript, C
 - ❑ **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms
 - ❑ **Familiar with:** Machine Learning, AWS Serverless Architecture, React, PySpark, Quantum Computing
 - ❑ **Adobe Products:** Photoshop, Illustrator, InDesign, After Effects, Animate (Flash)
-

Projects

Predict Quantum Circuit Execution Duration (Java, Python)

- ❑ Designed a machine learning algorithm to predict the execution duration of a quantum circuit on a quantum processing unit, utilizing AWS serverless architecture, with 94-98% accuracy.
- ❑ Created an AWS Lambda function to parse through information from a quantum circuit to get information needed for a ML data set.

Automate Operations Process (Python)

- ❑ Implemented a program that automatically created a trouble ticket whenever a customer post was added to AWS Forums, GitHub Issues, or StackOverflow
 - ❑ Reduced the time for the on-call to respond to a customer issue from 3 days to 10 minutes
-

Organizations

- ❑ Association for Computing Machinery, **Truman State University** **2019 - Present**
 - ❑ **Risk manager** on the executive board
 - ❑ **Team Leader** for the full-stack team on the web development team
 - ❑ Developed a website for the non-profit organization, Downtown Kirksville
 - ❑ Tru Women in Computer Science, **Truman State University** **2019 - Present**
 - ❑ Co-leader of Programming Club, **Park Hill High School** **2018 - 2019**
-