

Katie Tooher

Summary of Qualifications:

- Python, Java, C, Bash basics, C#, HTML, Git, VHDL, Basics of Unity
- Terraform and Amazon Web Services Cloud Architecture

Education:

Marquette University, Milwaukee
Major: Computer Science
Bachelor of Science

Expected Graduation: May 2022

Relevant Experiences:

- Won the 2018 Northwestern Mutual Data Science Hack-a-Thon
- Attended AWS Immersion Introduction Training at Northwestern Mutual (2019)
- Won the 2019 Northwestern Mutual Corporate Internship Hackathon

Work Experience:

National Aeronautics and Space Administration – EV2 Command and Data Handling *Houston, TX*

Student Trainee (Engineering) Pathways Intern

August 2020 – December 2020

- Implemented the MIV RV32IMA_L1_AXI v2.1 RISC-V softcore architecture to a Polarfire FPGA in Libero SoC
- Worked on a benchmark solution for the FPGA using the C programming language
- Used C to implement peripherals for a PCB that pairs with the FPGA – Temperature Sensor, LCD Paddle Switch

Kohls Technology

Menomonee Falls, WI

Software Engineering Intern – Site Reliability

June 2020 – August 2020

- Learned how to deploy and configure Kohl's Reliability Engineering's Prometheus Stack using Hierarchical Configuration Management
- Created dashboards in Grafana using PromQL to measure the degree to which a third-party service met their SLAs
- Learned how to deploy code via OpenShift CLI tools and GitOps
- Learned basics of the Go programming language
- Contributed to a Kohls Technology open source project – the Prometheus BigQuery Remote Storage Adaptor

Marquette University College of Engineering

Milwaukee, WI

Technology Support Consultant

August 2019 - Present

- Assisting students and faculty with technology support issues
- Collaborating with coworkers to provide the best assistance to faculty and students
- My skills working in both IOS and Microsoft operating systems has helped me assist many different individuals

Northwestern Mutual

Milwaukee, WI

Software Engineering Intern

May 2019 – August 2019

- Applying knowledge of Python 3 to develop cloud infrastructure for the Illustrations Application – a software to aid Financial Representatives
- Learned how to use Terraform and Amazon Web Services (AWS) to provision cloud infrastructure
- Gained Experience in Agile software development workflows in the DevOps department
- Executed a POC for AWS Serverless Application Model (SAM) to test and model AWS resources locally (Lambda/SQS) as well as the ELK Stack (Elasticsearch, Logstash, and Kibana) for modeling data to assist with business decisions

Girls Who Code

Instructor

Milwaukee, WI

August 2018, April 2020

- Teaching girls (and boys) how to code Python 3, and game design with C# and Unity
- Learning and perfecting classroom management skills as well as designing curriculum and lesson plans for students

Northwestern Mutual

Data Analytics Intern

Franklin, WI

May 2018 – August 2018

- Produced project implementation and tracking documents for a new project to improve and fast-track processing of disability insurance claims
- Assisted the project team by using Microsoft Visio to create process maps as well as Excel dashboards to track progress
- Received training for IBM Decision Modeling with Decision Management Solutions as well as how to use their Operational Decision Managing software

Affiliations:

Association of Computing Machinery-Women Student Chapter at Marquette

February 2019 -Present

Co-Founder and President

- Working to create an inclusive environment at Marquette and a vehicle to help raise awareness for gender parity in computing fields.
- Raised money through sponsorship to send 6 women to the Virtual Grace Hopper Celebration in October 2020
- Lead events to provide professional development and empowerment for women in computing

Marquette Association of Computing Machinery

March 2018 -Present

Vice-President

- Assists with the organization of events and organized the Scratch Division for the Wisconsin Dairyland Programming Competition hosted by Marquette and ACM in 2018, 2019, and 2021
- Help host and create events for professional development of students in computing