Bailey Morgan
bailey.mccarty.morgan@gmail.com
513-816-5807 - github.com/Baileymnm1999

Experience

Microsoft   **June 2021 - Present**

Software Engineer

- Developed and demonstrated capabilities of edge computing platform through rapid prototyping resulting in increased customer interest, device orders within gov cloud regions increasing from 0 to many fleets accross multiple customers, significant team exposure and recognition up to the CVP level, and addition leads and needs from customers
- Owned entire features in solution accelerator from concept to design and implementation, demonstrating mixed reality capabilities at the edge not previously availible, such as operator perspective inferencing, and low latent video streaming
- Optimized owned features to minimize compute and storage footprint on edge devices and well as network latency and bandwidth.

Amazon AWS   **June 2020 - August 2020**

Software Development Engineer Intern

- Designed and created platform to execute canaries against production services allowing team to decouple existing canaries from the platforms of other services
- Implemented canaries that identify customer experience degradation in the form of ECS Fargate task launch latencies longer than 3 standard deviations above the 90th percentile of all task launches also reducing response time to service outages down to 30 seconds

Northrop Grumman Xetron   **September 2015 - August 2019**

Software Engineer co-op

- Redesigned the architecture of a non-working program, Sharkbait, to efficiently generate preconfigured virtual machines using web technologies, Java, and VMware API
- Worked as part of a team using agile software developement methods to deliver a 1.0 release ahead of schedule and under budget
- Served as Team leader for aerial purple team versus purple team research/competition using 3DR Solo drones, our team took 3 out of 4 wins and together both teams discovered a number of security issues with the drones

Education

Rose-Hulman Institute of Technology   **Class of 2021**

Bachelor of Science in Computer Science   GPA 3.2

Skills

- C/C++, C, .NET, Python, Java, Javascript
- Relational databases, SQL
- Web and Android developement
- Linux/Unix systems, networking, cyber security
- Leadership and interpersonal skills
- Problem solving, critical/algorithmic thinking

Involvement

- Early In Career employee resource group — Spring 2022 - Present
- First Generation Low Income employee resource group — Fall 2021 - Present
- Rose-Hulman Computer Science Tutor — Spring 2019 - Spring 2020
- CompSec (Cyber Security Club at Rose-Hulman) — Fall 2018 - Spring 2019
- Rose-Hulman Equestrian Club — Fall 2018 - Spring 2021
- Business Professionals of America national computer security competition — Spring 2017
- CyberPatriot national cyber security competition — Fall 2015 - Spring 2017