

# GALEN GUYER

Full Stack Software Engineer Seeking a Summer 2021 Co-op

## EXPERIENCE

### Microsoft

#### Software Engineering Intern - One Customer Voice Team

June 2019 – August 2019

Redmond, WA

- Improved item grouping for the internal feedback aggregation tool
- Defined project scope and requirements within a tech spec and documented UI and backend changes in a design doc
- Exposed all previously hidden top level fields and automatically detected field type via Elasticsearch mappings, greatly increasing both the granularity and flexibility for users
- Implemented frontend, backend, and tests with 100% backend code coverage

**Tools:** C#, ASP.NET, Azure Service Fabric, Elasticsearch, AngularJS

### Microsoft

#### Software Engineering Intern - Office Security Penetration Testing Team

June 2018 – August 2018

Redmond, WA

- Automated resource gathering, provisioning, and deployment of fuzzing jobs
- Developed a PowerShell script to create a Windows VM, automatically install Office, gather debugging symbols for Office, and send these to a Microsoft Security Risk Detection server to install and start a fuzzing run
- Implemented a server to collect, deduplicate, and report new bugs
- Worked closely with the Microsoft Security Risk Detection team to help improve the job deployment process while the tool was in internal beta

**Tools:** PowerShell, Microsoft Security Risk Detection, Azure, ASP.NET

## PROJECTS

### RIT COVID-19 Dashboard

<https://ritcovidashboard.com>

- Created an improved version of the Rochester Institute of Technology's COVID-19 tracking dashboard
- Wrote a Python scraper to check the dashboard on an interval and update a SQLite database with the numbers from the official dashboard, then expose the saved data with a JSON API
- Used the data from the scraper in a React app that provides all the information from the official dashboard as well as changes over a user-selected time period and graphs of all historical data
- Used by roughly 10% of the student body within 24 hours of launch

**Tools:** Python, SQLite, Flask, React, Docker

### Global Content Delivery Network

<https://github.com/galenguyer/cdn-configs>

- Consists of Azure Virtual Machines distributed around the globe to provide the least latency based on the user's geographical location
- Deploys with Terraform for easily reproducible infrastructure
- Uses Ansible to distribute static files, configuration files, and SSL certificates from a central server to all edge servers

**Tools:** Azure Virtual Machines, Azure Traffic Managers, Ansible, Terraform, Nginx

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## EDUCATION

### Rochester Institute of Technology

#### Software Engineering B.S.

Expected Graduation May 2024

## SKILLS

### Languages

C# Python PowerShell Rust HTML/CSS  
JavaScript React Java PHP

### Tools

NGINX Linux Git GitHub Docker  
Docker Compose Traefik Azure Bash  
MongoDB Flask Ansible

## ACTIVITIES

### Computer Science House

#### Systems Administrator

April 2020 - Present

Maintain House Services such as the student-run server room and all services within it, including virtual machine and user profile management portals

### WITR Radio

#### Internal Developer

October 2019 - Present

Responsible for the upkeep and development of internal and public facing services such as the public website

### Society of Software Engineers

#### Public Relations

January 2020 - May 2020, January 2021 - Current

Coordinated company visits and tech talks throughout the semester

### Boy Scouts

#### Eagle Scout

September 2017

Achieved Boy Scouts' highest rank after earning 26 merit badges and designing, coordinating, and leading a 100+ hour service project