

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

December 2019 - May 2020, January 2020 - 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