GALEN GUYER

Software Engineer Seeking a Spring or Summer 2022 Co-op

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EXPERIENCE

Blackbaud
DevOps Intern

📅 May 2021 – August 2021   📍 Remote

- Built a PowerShell script to configure Splunk alerts from JSON files
- Designed the script to load defaults from a base file and overwrite them from alert-specific files, to allow for a miniumum amount of work to create a new alert or update across all alerts

Tools: *PowerShell, Splunk*

Microsoft
Software Engineering Intern - One Customer Voice Team

📅 June 2019 – August 2019   📍 Redmond, WA

- Improved item grouping for the internal feedback aggregation tool
- 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*

Software Engineering Intern - Office Security Penetration Testing Team

📅 June 2018 – August 2018   📍 Redmond, WA

- 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://ritcoviddashboard.com**

- Wrote a Python scraper to check the official 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://galenguyer.com**

- 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, Bash, Nginx*

EDUCATION

Rochester Institute of Technology
Software Engineering B.S.

📅 Expected Graduation May 2024

SKILLS

Languages

Python C# Go React HTML/CSS
JavaScript PowerShell Java

Tools

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

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

Teaching Assistant
Social Network Analytics and Data Visualization

📅 August 2021 - Present

Assisted with designing coursework and demonstrations as well as grading completed work

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