

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

GenericBot

<https://github.com/galenguyer/GenericBot>

- Built a Discord bot to provide moderation tools and fun commands to over 50 servers totaling over 16,000 users
- Used C# to connect to Discord's API and store all user data in an encrypted, self-hosted MongoDB instance
- Exposed user-stored quotes via a webpage ASP.NET Razor Pages for server-side rendering and JavaScript for fast, responsive search

Tools: C#, MongoDB, ASP.NET, Razor Pages, HTML/CSS/JS, Azure Build Pipelines

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

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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

Accessibility Learning Labs

Software Engineer

May 2020 - August 2020

Worked in a federally funded research program to develop React apps to demonstrate the importance of accessible software to students and developers

Society of Software Engineers

Public Relations

December 2019 - May 2020

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