GALEN GUYER

Full Stack Software Engineer Seeking a Summer 2021 Co-op

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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://ritcoviddashboard.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

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