

GALEN GUYER

Backend Software Engineer seeking 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 their project as it was not publicly released

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

PROJECTS

GenericBot

<https://github.com/MasterChief-John-117/GenericBot>

- Provides moderation tools and fun commands to over 30 servers totaling over 12,000 users
- Uses C# to connect to Discord's API and stores all user data encrypted in a self-hosted MongoDB instance
- Exposes user-stored quotes via a webpage with an ASP.NET API and Vue frontend for responsive search

Tools: C#, MongoDB, ASP.NET, HTML, Vue, Azure Build Pipelines

PhotoSink

<https://github.com/MasterChief-John-117/PhotoSink>

- A re-write of the lightweight photo gallery PhotoFloat, using modern technologies
- Uses a python3 backend to construct the directory indexes and resize images into thumbnails for faster page loads
- The frontend is a React app that looks at the indexes to build the gallery with thumbnails and folder names
- Makes use of the url fragment for single page navigation so the full page doesn't need to be reloaded on navigation

Tools: Python, React, NGINX

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EDUCATION

Rochester Institute of Technology

Software Engineering B.S.

Expected Graduation May 2023

SKILLS

Languages

C# PowerShell Python JavaScript Java

Tools

Azure NGINX Linux Git Bash

ACTIVITIES

Computer Science House

Member

August 2019 - Present

Maintain House Services such as virtual machine setup and account management portals and manage server resources for an annual Minecraft charity stream

Society of Software Engineers

Public Relations

December 2019 - Present

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