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

@ galen@galenguyer.com   📞 (425) 898-3145
🔗 galenguyer.com   in linkedin.com/in/galen-g
 MasterChief-John-117

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