

Graham Eger

Software Engineer

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Education

University of Michigan – Ann Arbor

Ann Arbor, MI

- B.S. in Computer Science, May 2019. GPA 3.0
- Active member of SECURIT (SECurity Reading Is Terrific), Security group through the EECS department.
- Significant Coursework: Web Systems, Operating Systems Engineering, Computer Networking, Finance, Computer Security, Data Structures and Algorithms

Experience

Quicken Loans

Detroit, MI

Software Engineering Intern – Mortgage Servicing

May – August 2018

- Designed a front-end application in AngularJS and TypeScript for end users to manage their work for a given day.
- Developed a Work Prioritization API using .NET Core to prioritize and deliver action items to end users. Improving servicing efficiency by over 50%. Gathered servicing performance data leading to new insights used to improve workflow efficiency.
- Transitioned large-scale web app from Angular5 to Angular6, and ASP.NET to .NET Core. Reducing lines of code by 15%.
- Developed suite of unit and integration tests, and CI/CD workflow to raise code coverage by over 40%.

MSX International

Detroit, MI

System Administrator – North America

April – August 2017

- In a client-facing role, administered Windows and Linux systems; focusing on the hardware, software and server infrastructure for MSX International's entire North American market.
- Engineered and tested worldwide ransomware incident response business process by developing and leading training sessions.
- Developed and administered honeypots based anti-phishing framework to actively train end-users on scam-emails.

Junior System Administrator – North America

April – August 2016

- Provided custom system setup and on-call VIP desk-side support for C-level executives.
- Created and maintained virtual environments for critical business applications running in the cloud and on premises.

Technical Skills

- Programming Languages: C++; C; Python; C#, TypeScript; Swift; SQL; R; HTML/CSS/JS; ARM assembly
- Technologies and Strengths: Network Programming, OS Development, Git, Linux Admin, Amazon AWS, AngularJS, .NET Core, Flask, Bash Scripting,

Extracurricular Activities

Delta Tau Delta Fraternity

2015-Present

- President – Led a chapter of 100+ men, recruited our two largest recruiting classes of all time, managed a budget of over \$100,000.
- Director of Risk Management – Developed and implemented a new risk management program addressing concerns related to building maintenance, safety, fire, and member health.

University of Michigan Sailing Team

2017-Present

- University Liaison and Travel Director – Represent the team to all University Officials. Develop travel schedule and manage rental of Vans and Hotels for 30+ events per semester.
- Participated in 2017 and 2018 Keelboat National Championship hosted by the United States Naval Academy

University of Michigan Club Sports Executive Board

2018-Present

- VP Public Relations – Create weekly Club Sports Connection Newsletter and coordinate relations with media outside of the University.

Projects

- Network File Server - Multi-threaded, secure network file server. Custom protocol, written in C++.
- Better Scheduler - A replacement for University of Michigan's course guide written in Python using Flask.
- DissassembleLC2K - A sample disassembler for the ISA LC2K used at Michigan, Colorado Boulder, and US Santa Cruz.
- iPerfer – Network bandwidth measurement tool. Written in C++ using Berkeley Sockets.
- vm_pager – Virtual Memory subsystem for historical UNIX systems. Multi-thread capable, paging and memory mapping.