

Kiernan Roche

Hacker, security consultant, runner, hiker, hobbyist accountant,
finance and investing nerd

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EXPERIENCE

Independent Consultant, self-employed December 2020 - present
Boston, MA, US

- Perform and deliver security assessments and provide expert advice
- Communicate with prospective clients and conduct business development activities

Associate Security Consultant, Synopsys Inc. Software Integrity Group January – November 2020
Burlington, MA, US

- Performed application and network security assessments for various Fortune 500 clients
- Sold \$10k+ of new work for Synopsys and delivered new client engagement personally
- Mentored two junior consultants in web application assessment methodology

Security Consultant Intern, Synopsys Inc. Software Integrity Group May – August 2019
Burlington, MA, US

- Performed application security assessments for various Fortune 500 clients
- Contributed to internal Windows application analysis software
- Developed internal capture-the-flag software using Java

Security Consultant Co-Op, Virtual Security Research LLC (now NCC Group) July – December 2018
Boston, MA, US

- Performed application, network, and physical security assessments as part of a professional team
- Designed and executed phishing and social engineering campaigns
- Presented engagement findings to clients and collaboratively developed remediation strategies

Software Engineer Intern, Fidelity Investments Inc. May – August 2017
Merrimack, NH, US

- Directed team of three interns as technical lead to develop Fidelity's cloud deployment automation systems using Ansible and Red Hat OpenShift
- Developed command-line tools to interact with Fidelity's private cloud REST API using Python
- Nominated Intern of the Year

EDUCATION

B.S. Computer Science, Framingham State University Sep 2016 – May 2020
Framingham, MA, US

- Computer science tutor 2017-2019, supplementing all levels of instruction to underclassman students
- President of the Computer Science Club 2017-2018
- Outstanding Service Award recipient for service to the computer science department and for peer mentorship

SKILLS

- Performing application, network, and physical penetration tests as well as source code security audits
- Performing social engineering and phishing activities as part of simulations or red team engagements
- Using industry-standard security tools (Burp Suite, AppScan, Wireshark, Metasploit, nmap, netcat, etc.)
- Software engineering, especially using Java, Python, C/C++, Go, web languages (HTML, JS, CSS) but capable of applying good design patterns in any language
- Linux system administration
- Interacting with clients:
 - Helping them understand what they need
 - Ensuring those needs are met
 - Clearly and meaningfully articulating engagement findings
- Writing in a professional manner accessible to non-technical audiences

SPEAKING

- Cybersecurity Basics, *employee training for Synopsys client, October 2020*
- Overview of Open Financial Exchange and Implementation Weaknesses, *Boston Security Meetup, September 2020*
- Hacking Into Consulting, *Framingham State University, October 2019*

PROJECTS

mvpower_exec Metasploit module

Wrote a Metasploit module which exploits a vulnerability found in MVPower brand DVRs by Pentest Partners

hover-utils

Wrote a Bash script implementing dynamic DNS using Hover's undocumented API

COMMUNITY INVOLVEMENT

Open Web Application Security Project

Member – Boston chapter

Boston Security Meetup CMD+CTRL CTF

Winner (1st place) – June 2019

Fidelity Merrimack Hackathon

Participant – July 2017

OWASP Boston Application Security Conference CTF

Runner-up (2nd place) – October 2017