Mitchell Zakocs

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Professional Summary

Software Engineer and Computer Science Student with verifiable projects, substantial experience, and technical skills within the industry. Able to create innovative & scalable solutions to complex problems, troubleshoot difficult bugs or issues, and learn new technologies rapidly. Has strong analytical thinking skills and is exceptionally adaptable. Thrives in a team-based environment through strong collaboration and leadership skills. Fluent in Spanish.

Job Experience

Summer Research Assistant, Arizona State University SEFCOM Lab • Tempe, AZ ***3 mos, Jun 2021 - Aug 2021***

- Researched innovative software obfuscation techniques and generated ideas to counter and improve them
- Wrote IDAPython plugins to remove certain obfuscations and gained plenty of software binary analysis experience
- Released two technical write-ups for the research on personal blog; generated 200% increased traffic to website

Software Applications Engineer Intern, Ordertech • Tempe, AZ ***6 mos, Mar 2020 - Aug 2020***

- Built software for single-page JavaScript applications in the front-end and Java & Python in the back-end
- Engineered a unified communications system using SIP, WebRTC, Java, and JavaScript for integrated phone call and text chat functionality; yielded company up to 35% increased revenue on certain clients for CRM services
- Devised a productivity-focused cloud email system for managing customer support tickets and internal tasks

Electrical Software Engineer Intern, Circuit Specialists • Tempe, AZ ***6 mos, Aug 2019 - Jan 2020***

- Developed software for embedded microcontrollers in Python and C programming languages
- Reverse-engineered software binaries for oscilloscopes, arbitrary waveform generators, and multimeters for repair
- Launched projects for clients involving extensive integrated PCB design, custom firmware programming, debugging, soldering, troubleshooting, rewiring, battery rebuilding, and more

Highlighted Projects

Google Meets Authentication Exploit (github.com/mzakocs/GoogleMeetBreakoutSecurity) ***2021***

- Developed proof of concept for an exploit that allowed attackers to join any breakout room in a Google Meet call
- Reported vulnerability to Google VRP and was analyzed by a board of senior application security specialists

FIRST Statistics (github.com/mzakocs/FIRST-Statistics) ***2020***

- Utilized the Glicko algorithm, linear algebra, and statistical analysis to rank teams and predict match outcomes
- Written in Python and uses a REST API for gathering data and Google Sheets integration for utilizing data

Education & Certifications

Arizona State University, Ira. A Fulton & Barrett Honors College • Tempe, AZ ***2021 - Current***

- *Computer Science (Software Engineering), BS*

Arizona Department of Education • Phoenix, AZ ***2021***

- *Seal of Biliteracy (Spanish), Certificate*

Awards & Achievements

Flinn Scholar: 1/20 students selected from nearly 1000 applicants to receive a prestigious full-ride scholarship
PicoCTF 2021: Scored Top 10 in the US for solo teams and Top 100 in the US overall
Scudder Award: Award for outstanding academic excellence, high standards of character, and intellectual curiosity

Relevant Skills

Languages: Python, JavaScript, Java, C++, C, x86 Assembly, Julia, C#, HTML, CSS
Technologies: React, Node.js, Next.js, Express.js, ExtJS, JSP, Material-UI, Chrome API, WinAPI
Data Management: MongoDB, PostgreSQL, REST, Apollo, GraphQL
Miscellaneous: Git, VMware Workstation, Visual Studio, Vagrant, SIP, WebRTC, Chrome Devtools