

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

Research Assistant, Arizona State University • Tempe, AZ

Jun 2021 - Present

- Working with Ph.D. students on software virtualization research at the Arizona State University SEFCOM Lab

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
 - Collaborated with master's degree Computer Science students on projects for clients involving extensive integrated PCB design, programming, soldering, troubleshooting, rewiring, rebuilding batteries, and more
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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
- Honored in VRP Hall of Fame for reporting the vulnerability, currently being fixed by Google's software engineers

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

2020

- Designed, developed, and debugged a statistics prediction engine for FIRST Robotics Competition (FRC) events
 - Utilizes 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
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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*
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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