

Mitchell Zakocs

mzakocs@gmail.com • (704) 408-9880 • Tempe, AZ
mitchellzakocs.com • [linkedin.com/in/mitchzakocs](https://www.linkedin.com/in/mitchzakocs) • github.com/mzakocs

Recent Experience

Computer Security Research Aide, Arizona State University SEFCOM Lab • Tempe, AZ *Jan 2022 - Present*

- Working on bleeding-edge computer security research related to software and exploit development

Business Operations Analyst Intern, Culdesac • Tempe, AZ *5 mos, Aug 2021 - Dec 2021*

- Created impactful data insights and visualizations using Looker and SQL
- Designed meaningful data dashboards by amassing insights & visualizations; influenced large company decisions regarding leases, deposits, properties, etc.
- Ventured into Data Engineering and complex data pipeline management through LookML, dbt, and BigQuery

Summer Research Aide, 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; increased traffic to website by over 400%

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
 - Launched projects for clients involving extensive integrated PCB design, custom firmware programming, debugging, soldering, troubleshooting, rewiring, battery rebuilding, and more
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Highlighted Projects

Personal Website (mitchellzakocs.com) *2021*

- Designed, developed, and maintained a personal website & technical blog using React and Next.js
- Contains several blog posts regarding computer security, software virtualization, kernel development, and more

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
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Education & Certifications

Arizona State University, Ira. A Fulton & Barrett Honors College • Tempe, AZ *2021 - 2025*

- *Computer Science (Software Engineering), BS*
 - *Extracurriculars: Shellphish CTF Team (Computer Security Competitions), SEFCOM Research Lab*
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Awards & Achievements

Flinn Scholar: 1/20 students selected from nearly 1000 applicants to receive a prestigious full-ride scholarship

Seal of Biliteracy: Recognized fluency in Spanish through difficult standardized language & culture assessments

PicoCTF 2021: Computer Security competition; 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, BigQuery, REST, Looker, dbt, Apollo, GraphQL

Miscellaneous: Git, GitHub, Visual Studio, Vagrant, SIP, WebRTC, Chrome Devtools