Jacob Farabee

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AREAS OF INTEREST

I am a junior cybersecurity student with over one hundred hours hands-on experience with binary exploitation, looking to jumpstart a career in network security. I look forward to working on projects concerning cyber forensics, intrusion detection & mitigation, user privacy and penetration testing.

EDUCATION

- **Arizona State University**   Tempe, AZ
  B.S., Computer Science (Cybersecurity)   *Aug. 2018 – est. May 2022*
- **Relevant Courses**: Computer Systems Security, Computer Networks, Intro to Security, Database Management, Operating Systems, Computer Architecture and Assembly Language

TECHNICAL KNOWLEDGE

- **Langauges (Comfortable)**: Java, C/C++, Python, Bash, x86 Assembly, SQL
- **Languages (Intermediate/learning)**: Rust, JavaScript
- **Security Technologies**: pwntools, pwndbg/GDB-GEF, r2, rop-gadget, Ghidra/Angr
- **Security Concepts**: Shellcoding, Sandbox Escape, Binary Reverse Engineering, ROP Attacks, Kernel Exploitation, Dynamic Allocator Misuse, Race Condition Exploitation, Stack Smashing, JIT Spray, SQL Injection

PROJECTS

- **SunHacks 2019**: Mobile app to overlay socioeconomic status and natural disaster information pulled from ArcGIS.
- **EmergenTech 2020**: Decentralized vaccine distribution tracking network built on Ethereum technology with NodeJS frontend.

EXTRACURRICULAR ACTIVITIES

- **pwndevils/Shellphish**   ASU/UCSB
  ASU's CTF club, and joint ASU/UCSB parent team Shellphish.   *August 2020 - Present*

- **Album Listening Club**   ASU
  Music listening and discussion club. Founding member.   *January 2020 - Present*

- **Software Development Association**   ASU
  Speakers from industry give lectures on software development trends & practices.   *August 2018 - Present*

WORK EXPERIENCE

- **Arizona State University Economics Department**   Tempe, AZ
  Office Assistant   *September 2019 - May 2020*
  - **Responsibilities**: Maintaining front office stock, processing reimbursement paperwork, printing final exams for dozens of classes.