

Benjamin A Schulte

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PROFESSIONAL EXPERIENCE

VICEROY Maven Internship

Intern

San Diego, CA

June 2024 – August 2024

- Sponsored by Griffiss Institute at NIWC Pacific.
- Built a chat bot bridge between two messaging applications in Python. Utilized a PostgreSQL database and an API to interface between both chat applications.
- Performed vulnerability testing for a web application using common techniques and tools like Burpsuite.

EDUCATION

The University of Kansas

Pursuing Bachelor of Science in Computer Science

Cumulative GPA: 3.95/4.0

Scholarship for Service (SFS) Student

Lawrence, KS

Expected May 2025

Relevant Coursework

Information & Computer Security, Advanced Software Security Evaluation, Software Reverse Engineering, Cyber Defense, Communication Networks, Database Systems, Computer Forensics

CERTIFICATIONS

CompTIA Security+ Certification

CompTIA, January 2025

Expires January 2028

EXTRACURRICULAR

- KU Information Security Club
 - Crimson Team Leader, 10hrs/wk*
 - Lead meetings twice a week on red team activities and competitions.
 - Perform other officer duties to keep the club running smoothly.
 - Organize and compete in red team competitions.
 - Focus on preparing written reports on competition challenges that document the steps taken.

TECHNICAL SKILLS

Programming Languages

- Proficient in C++ and Python and working knowledge of C, Rust, and JavaScript.

Operating Systems

- Proficient in Linux (mainly RHEL, Debian, and Kali flavors) and have extensively worked in Windows 10/11 environments.

Tools and Applications

- Previous experience using BurpSuite, Ghidra, gdb, Metasploit, Nmap, CyberChef, pwntools, VirtualBox, VMWare, and Wireshark.

PROJECTS

- Helped develop a password management application in Python. Implemented the cryptography behind the application. Utilized the bcrypt library for authentication with a master password and used the cryptography library for PBKDF2 and AES-GCM for storing passwords securely in the application file.
- Completed C code for a “self-driving” car that used a Hi-Five board and a Raspberry Pi.

HONORS AND AWARDS

- VICEROY Scholar
- Scholarship for Service
- Chancellor’s Scholarship for the University of Kansas
- Dean’s Scholarship for the School of Engineering
- Department of Electrical Engineering and Computer Science Scholarship
- Completion of Kansas Scholars Curriculum

OTHER RELEVANT EXPERIENCE

- Workshops
 - BSidesKC 2023
 - CANSec (Central Area Networking and Security) 2023 Workshop at KU
- CTFs
 - First place collegiate team at the USARCENT Best Cyber Warrior X Competition
 - Third place at H&R Block’s InsomniHACK
 - Participated in SekaiCTF 2023, PicoCTF 2023, BuckeyeCTF 2024, Intigriti’s 1337UP LIVE CTF 2024, USC CTF 2024, UD CTF 2024
- Personal Research
 - Interested in cryptography and implementations of cryptosystems and PKI.
 - Studied the workings of ECC, zero knowledge proofs, PKI, RSA, AES, and DES.
- NSA Codebreaker Challenge (2023, 2024)
- Cryptohack
 - Introductory and modular arithmetic course, symmetric challenges
- PortSwigger’s Web Security Academy
 - Completed multiple CTF-style boxes dealing with web exploitation topics like: HTTP smuggling, HTTP splitting, Client-Side Request Forgeries (CSRFs), Server-Side Request Forgeries (SSRFs), Server-Side Template Injections (SSTIs), SQL injection, XXS, and log poisoning.
- TryHackMe and HackTheBox
 - Increased understanding of topics like red team practices, Linux commands, offensive security, introductory networking, and Nmap.
- OverTheWire
 - Completed “war games” dealing with the Linux CLI as well as web hacking.
- pwn.college