Chase Kanipe

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chasekanipe.com

University of Maryland - Bachelor of Science (2021)
Major - Computer Science (*Cyber specialization*)
Minors - Physics, ACES Minor

Certification - OSCP (*Offensive Security Certified Professional*)

Experience

Research Assistant — Joint Quantum Institute

June 2019 - Current

Programming ARTIQ hardware to interface with quantum computation and atomic physics experiments. (Python, Rust)

Software Development Intern — MPLEX VR

May 2018 - Current

Developed virtual reality environments for a VR startup. We recently received a $500,000 investment. (UE4, C++, Maya, Substance)

Research Assistant — UMD Autonomous Unmanned Systems

June 2018 - August 2018

Worked under Dr. Derrick Yeo through F.I.R.E. at UMD with visualizing security vulnerabilities in the DSRC wireless protocol (C, Python)

Software Development Intern — The Precision Alliance

June 2017 - August 2017 and June 2015 - August 2015

Database and web design for over 2750 types of bearings and telescopics.

Selected Projects

Security Analysis of DSRC Protocols — C++/Python

Built a simulation to demonstrate security vulnerabilities in proposed vehicle communication protocols

Quantum Key Distribution Simulator — Python

Python scripts to simulate attacks on QKD implementations

Raw-Socket Port Scanner — Python

Raw socket python script for host discovery and service fingerprinting

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Skills

Programming (Fluent)

C, Java, Python

Programming (Proficient)

x86, Rust, OCaml, Ruby

Reverse Engineering

Radare2, GDB–PEDA, Windbg

Penetration Testing

Nmap, Wireshark, Burp Suite, Metasploit, Beef XSS, etc.

Graphics

UE4, Maya, GIMP, Substance

Other

Github

Extracurricular

UMD Cybersecurity Club

UMD XR Club

Terrapin Record Label

Society of Physics Students

Awards

Accepted to speak at AIAA on cybersecurity and aerospace

MRHS "Computer Science" Award

Member of SPS National