Work Experience

University of Maryland - PLUM   Aug 2022 - Present
Graduate Research Assistant
Working with Leonidas Lampropoulos on the intersection of Property Based Testing, Fuzzing, and Formal Verification.

Amazon Web Services Privacy Engineering Team - Automated Reasoning   May 2022 - Aug 2022
Applied Science Intern
Implemented of a novel encryption scheme on top of the AWS Encryption SDK.
Python, Dafny, AWS Encryption SDK

University of Maryland - Maryland Cybersecurity Center(MC2)   Jul 2020 - Dec 2020
Research Intern
Program Synthesis, Automatic Exploit Generation

Havelsan   Jul 2020 - Apr 2020
Part-Time Engineer
Designed and implemented a novel bandwidth detection and optimization algorithm for a video-conference application.
Javascript, React

Emproof   Jun 2019 - Sep 2019
Embedded Security Engineering Intern
Worked on translation validation of binary obfuscation techniques.
C++, Z3 SMT Solver, ARM Assembly, Symbolic Execution