

Andrew Hou

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Work Experience

Capital One

CYBER SECURITY ASSOCIATE

- Assist CSOC analysts with day to day duties

McLean, VA

August 2022 - Present

Northrop Grumman

CYBER SOFTWARE INTERN

- Vulnerability research

Cincinnati, OH

May 2021 - July 2021

State Farm

ENTERPRISE TECHNOLOGY INTERN

- Developed dashboards in Splunk to increase the team's awareness of infrequent and uncommon errors
- Enhanced existing dashboards for product monitoring
- Updated outdated JUnit test cases
- Monitored and triaged incident reports with HPSM

Bloomington, IL

May 2020 - July 2020

Purdue University

IT SECURITY OPERATOR

- Assist with incident response & analysis utilizing tools such as Splunk and Stealthwatch
- Research and report on potential vulnerabilities
- Provide support for IT security questions and concerns and respond to customer feedback and inquiries

West Lafayette, IN

October 2019 - August 2022

HEAD UNDERGRADUATE TEACHING ASSISTANT - ANALYSIS OF ALGORITHMS

- Developed weekly quizzes to test student understanding of lecture concepts
- Prepared supplemental lectures and questions to reinforce course material
- Assisted students with questions about material and homework

August 2021 - December 2021

Education

Purdue University

B.S. IN COMPUTER SCIENCE; B.S. IN MATHEMATICS

- GPA: 3.68 / 4.0
- Dean's List, Semester Honors (all semesters)

West Lafayette, IN

Aug 2019 - May 2022

Skills

Programming Languages Python, C, C++, Java, R

Tools Splunk, Bash, Git, Ghidra, OpenCV, Android Studio

Foreign Languages Chinese (fluent)

Selected Coursework

- Operating Systems
- Compilers
- Information Security
- Analysis of Algorithms
- Intro to Cryptography
- Computer Networks

Extracurricular

b01lers CTF Team

PUBLIC RELATIONS OFFICERS

- Participated in regular CTF competitions with the club, specializing in cryptography
- Developed training materials and challenges for the annual training bootcamp, open to the public
- Prepared and taught material for new members, focusing primarily on cryptography
- Organized recruiting events and planned introductory activities for new and prospective members
- Served as liaison with CERIAS, Purdue's security research group, for event planning and recruitment opportunities

Purdue University

August 2019 - August 2022