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## **EDUCATION**

**New York University** M.S. Computer Science 2020 Cumulative GPA: 4.00

University of Michigan B.S. Computer Science 2018 B.S. Women's Studies 2018

## **RELEVANT COURSEWORK**

#### Master's Coursework

Design and Analysis of Algorithms I • Software Engineering I • Information Visualization • Penetration Testing and Vulnerability Analysis • Artificial Intelligence I • Computer Networking • Distributed Systems • Introduction to Offensive

#### Undergraduate Coursework

Data Structures and Algorithms • Introduction to Computer Organization • Foundations of Computer Science • Introduction to Computer Security • Computing for Computer Scientists • Mobile App Development for Entrepreneurs • Introduction to Cryptography • Introduction to Operating Systems • Database Management Systems

## **EMPLOYMENT**

#### CRITICAL SKILLS MASTER'S PROGRAM FELLOW

Albuquerque, NM June 2018 to Current

- An employee of the Experimental Cyber Initiatives department which is responsible for advancing R&D in the area of cyber modeling and simulation with applications in areas including high-consequence networks, high-value networks, embedded systems, and control systems.
- Created a framework within our comprehensive in-house ICS/SCADA modeling and simulation platform that supported generic DAQ capability (i.e. HITL).

#### **RESEARCH & DEVELOPMENT INTERN**

Sandia National Laboratories

Albuquerque, NM May 2017 to May 2018

- Integrated minimega's protonuke into our in-house orchestration tool used for managing the creation, configuration, and deployment of modeling and simulation environments.
- Developed an experimental cyber range, with a lead on the creation of honeypots within that cyber range.
- Created a drone simulation program that integrated features of cyber disruption.
- Upgraded our automated ELK dashboard deployment and monitoring within our comprehensive in-house ICS/SCADA modeling and simulation platform which is responsible for capturing the cyber/physical impacts of targeted cyber events on critical infrastructure and control systems.

#### INSTRUCTIONAL AIDE FOR INTRODUCTION TO COMPUTER SECURITY

University of Michigan's Computer Science Department

Ann Arbor, MI Sept. 2017 to Apr. 2018

- Held a weekly two-hour discussion section in addition to office hours.
- Answered curriculum related questions on Piazza.
- Assisted in curriculum/project development.
- Head of Exam Logistics: Coordinated writing and testing of the final exam for the class. Organized testing locations for 300+ students, as well as directed and informed other staff of their duties as exam overseers and graders.

### INSTRUCTIONAL AIDE FOR PROGRAMMING AND INTRODUCTORY DATA STRUCTURES

Ann Arbor, MI Sept. 2016 to Apr. 2017

University of Michigan's Computer Science Department · Held a weekly two hour discussion section in addition to office hours.

- Answered curriculum related questions on Piazza.
- Assisted in curriculum/project development.
- Head of Cheat Checking: Utilized Stanford's MOSS (Measure of Software Similarity) to detect plagiarism in student projects. Wrote additional scripts and documentation to supplement MOSS's capabilities in order to suit the needs of a 950+ student class.
- Head of Exam Logistics: Coordinated writing and testing of midterm and final exams for the class. Organized testing locations for 950+ students, as well as directed and informed other staff of their duties as exam overseers and graders.

### GRADER FOR PROGRAMMING AND INTRODUCTORY DATA STRUCTURES

University of Michigan's Computer Science Department

Ann Arbor, MI May 2016 to Aug. 2016

- · Graded correctness in students' weekly lab work.
- Graded and gave feedback on students' coding style on course projects.
- Assisted in course improvement in regards to lab work.

### RESEARCH ASSISTANT

University of Michigan's Sociology Department

Ann Arbor, MI Jan. 2016 to Dec. 2016

- Middle School Sexuality: Subjective Understandings and Interactional Classroom Processes Researched the role of social media websites (blogs, forums, online communities) as a source of informal sex education for middle school adolescents.

## COMPUTER OPERATOR

University of Michigan's Medical School Information Services

Ann Arbor, MI Sept. 2015 to Aug. 2016

# **SKILLS**

PROGRAMMING: Bash, C. C++, CSS, Git. Go. HTML, Java, Javascript, LaTeX, Oracle SOL, Python, SCADA Systems LANGUAGES: English, Macedonian (bilingual), French (conversational)

# **AWARDS**

RSA CONFERENCE SECURITY SCHOLAR

Mar. 2019

# **PUBLICATIONS**

#### COMMPACT: EVALUATING THE FEASIBILITY OF AUTONOMOUS VEHICLE CONTRACTS

J. Erickson, S. Chen, M. Savich, S. Hu and Z. M. Mao IEEE Vehicular Networking Conference (VNC), December 2018

#### COMMPACT: EXPLORING THE FEASIBILITY OF AUTONOMOUS VEHICLE CONTRACTS

J. Erickson, M. Savich, S. Chen, M. Pese, S. Hu and Z. M. Mao escar USA, June 2018