■ mksavic@nyu.edu mksavic.github.io **(**248) 943-2251

in mksavic mksavic

EDUCATION

New York University

M.S. Computer Science 2020 Cumulative GPA: 3.9

University of Michigan

B.S. Women's Studies 2018 B.S. Computer Science 2018

RELEVANT COURSEWORK

Master's Coursework

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

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

Sandia National Laboratories

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

Ann Arbor, MI Sept. 2017 to Apr. 2018

- 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 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

University of Michigan's Computer Science Department

Ann Arbor, MI Sept. 2016 to Apr. 2017

- 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.

SKILLS

PROGRAMMING: CSS, Bash, C, C++, Git, Go, HTML, Java, Javascript, LaTeX, Oracle SQL, Python, SCADA Systems

LANGUAGES: English, Macedonian (bilingual), French (conversational)

AWARDS

RSAC SECURITY SCHOLAR · RSA Conference

Mar. 2019

STUDENT SCHOLARSHIP · Black Hat USA 2019

Aug. 2019

PUBLIATIONS & WORKSHOPS

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

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