

Cameron McGinley

camcginley@ucsd.edu

1-316-494-2723

[linkedin.com/in/cameronmcginley](https://www.linkedin.com/in/cameronmcginley)

github.com/cameronmcginley/

Education

University of California, San Diego

La Jolla, CA

M.S. in Computer Science

August 2022 – May 2023

Wichita State University

Wichita, KS

B.S. in Computer Science; Minor in Mathematics

August 2018 – May 2022

- GPA: 3.99 / 4.00

Experience

National Security Agency

Fort Meade, MD

Computer Science Intern

June 2022 – August 2022

- Upcoming

NetApp

Wichita, KS

Test Engineer

May 2019 – Present

- Automated testing on data storage system firmware to ensure its stability and interoperability with diverse configurations of hosts (Windows, RHEL, SLES), switches (Mellanox, Cisco, Brocade), drives, and protocols (SAS, FC, iSCSI, IB, and NVMe)
- Developed Python prototype to interface with NetApp storage systems to collect and track configuration data, now used regularly by QA teams
- Documented defects and worked alongside QA and SW teams on reproducibility, tracking, and solutions

Purdue University

West Lafayette, IN

Research Intern, Advisor: Dr. Yongle Zhang

June 2021 – July 2021

- *Presented at:* 2021 Purdue SROP
- Created scalable dataset of software bugs from Apache projects utilizing Jira, GitHub, and Python (PyDriller)
- Developed method of calculating entropy on n-grams of tokenized code to locate software bugs, found notable distinction in entropy values of buggy versus non-buggy lines of code
- Worked on system for converting code to graphs and using graph neural networks with PyTorch-Geometric to overcome problems in capturing dependencies for bug locating

Wichita State University

Wichita, KS

Research Intern, Advisor: Dr. Sergio Salinas

June 2020 – August 2020

- *Presented at:* 2021 WSU Undergraduate Research and Creative Activity Forum, 2021 Kansas Undergraduate Research Day at the Kansas State Capitol
- Designed a malicious email classification tool using a convolutional neural network, achieved 97% accuracy on a diverse dataset; paper published to IEEE International Conference on BigData 2021
- Built prototype email responder using GPT-2 designed to respond to malicious emails imitating a victim, with the goal of wasting the attacker's time

Skills

- *Programming:* Python, C++, JavaScript, MATLAB, Lua
- *Operating Systems:* Windows, Linux (Ubuntu, Red Hat, SUSE)
- *Other:* Git, MySQL, React

Publications

C. McGinley and S. Salinas, "Convolutional Neural Network Optimization for Phishing Email Classification," *2021 IEEE International Conference on Big Data (Big Data)*, 2021, pp. 5609-5613, doi: 10.1109/BigData52589.2021.9671531.