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# Collin Reilly Clark <crclark96@gmail.com>

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610-742-3854

<https://collinreillyclark.com>

## EDUCATION

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### Johns Hopkins University

January 2020 - December 2021

Master of Science in Computer Science, Systems Focus

### University of Delaware

September 2015 - May 2019

Honors Bachelor of Engineering in Computer Engineering

Minor in Mathematics, Cybersecurity, Computer Science

- Tau Beta Pi Engineering Honors Society
- Eta Kappa Nu Electrical and Computer Engineering Honors Society
- Honors Award

## COMPUTING PROJECTS AND ACCOMPLISHMENTS

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- TOP SECRET//SPECIAL INTELLIGENCE//TALENT-KEYHOLE active security clearance
- Agency Special Background Investigation (SBI) and polygraph
- Former President of the University of Delaware's Linux Users' Group
- Former Vice President of Eta Kappa Nu Electrical and Computer Engineering Honors Society
- Hoya Hacks, Best Software Award
  - Developed software interface for the Myo Gesture Control to interpret basic ASL signs and translate into speech
- Google Games, First Place
  - Awarded first place in Google's campus-wide group computing puzzle competition
- Attendance at SC16 and SC17 Supercomputing Conferences for selective student volunteer programs
- Founded the University of Delaware's cyber capture-the-flag team, ranked top 20 in US
- [github.com/crclark96/ginh](https://github.com/crclark96/ginh)
  - Open Source maintainer, project has over 100 stars on github

## SKILLS

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- C, VHDL, Python, Java, Bash, Javascript, SQL, x86, ARM, and MIPS assembly
- Experience with IDAPro, Ghidra, radare2, angr, Docker, Linux, iOS and Android RE

## WORK EXPERIENCE

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### Johns Hopkins University Applied Physics Laboratory

August 2019 - Present

#### Reverse Engineer & Vulnerability Analyst

- Writing PoCs for iOS kernel exploits as part of a larger software suite to unlock and jailbreak iPhones
- Leading a team of researchers in an internal research project studying automated decontainerization of processes on Linux systems (runc, docker, etc.)
- Reversing p2p protocols of common fileshare applications on the Android platform

### University of Delaware EECIS Department

August 2016 - June 2019

#### Labstaff

- Maintained the university's servers and computer systems for web hosting, data backups, and production. Specifically, managed systems equipped with Graphics Processing Units designed for high performance computation for courses and research

### United States Department of Defense

May 2018 - August 2018

#### Computer Science Intern

- Wrote and revised custom functions from the Pig language to add additional layers of parallelism and new features to an existing script servicing a full team of analysts. As a result, execution time dropped 66%
- Designed plugin script to automate dataflow decryption and normalization
- Upgraded and rewrote data query frontend servicing many users within the organization

### Golden Egg Labs, LLC

December 2017 - February 2018

#### Embedded Firmware Engineer

- Developed firmware for TI's MSP430 microcontroller to interface with custom hardware providing dental professionals with an all-in-one piece of equipment