

# Evan Kivolowitz

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## Work Experience

Researcher – National Science Foundation Cybersecurity Center of Excellence

*Winter 2019 – Present*

- Conducting a vulnerability assessment on Singularity, a containerization platform.

Software Engineering Intern – Amazon Web Services

*Fall 2018*

- Project under NDA.

Software Engineering Intern – Grammatech

*Summer 2018*

- Developed pipeline to discover and build C/C++ projects using Travis-CI in Docker containers.
- Integrated binary analysis and rewriting tools into local Travis-CI containers to rerun unit tests.

**UW** - Research Assistant – Graphics and Data Visualization Lab

*Spring 2017 - Fall 2017*

- Assisted PhD students in their research by writing portable graphics libraries to support arbitrary data visualizations.

Blockchain Development Intern – United Health Group – Optum

*Summer 2017*

- Developed Proof of Concept models for Blockchain focusing on data management.
- Made use of Hyperledger Fabric and Composer to develop permissioned Blockchain solutions.
  - Used Golang, JavaScript, D3, Nodejs, Bash, Docker, Python, and Git.
- Created Composer Blockchain deployment pipeline with an interactive Blockchain visualizer

**UW** - Research Assistant – School of Journalism / Department of Statistics

*Fall 2016 - Spring 2017*

- Lead programmer for a small research team that created concise models of social networks for Audience Segmentation.
- Used Python, MongoDB, and the Twitter API to develop efficient and reusable techniques of fetching, storing, and managing data.

## Education

University of Wisconsin: Madison – B.S. Computer Science – exp. graduation December 2019

- Undergraduate Projects Lab – Coordinator
  - In charge of administrating a hackerspace for like-minded computer scientists to collaborate and seek help on extracurricular projects.

## Personal Projects

Distributed Trade Hackathon Challenge Prize Winner - [DREX](#)

- Developed a marketplace for financiers to crowdfund electricity infrastructure in Africa.
- Built the marketplace on QTUM, and developed an ERC20 compliant token.
- Made use of Python / Flask, Solidity, Bash, and JavaScript for implementation.

Aegle – A Proof of Exercise Cryptocurrency

- Built on Ethereum, created a mobile app that uses OpenCV to detect performed exercise.
- Automatically pays users based on amount of work they performed.

## Talks

Introduction to Blockchain

- Created slide deck and presented it to several technology and business groups within Optum.

Twitter Research Board Colloquium

- Presented my research findings and pipeline to a board of professors and PhD students.