**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](https://devpost.com/software/d-rex)

* 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.