

# WILLIAM RONCHETTI

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<https://willronchetti.github.io/>

## EDUCATION

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### Cornell University

May/December 2018

B.A. and M.Eng in Computer Science

Undergraduate GPA: 3.43

Graduate GPA: 3.69

5-Semester TA for Operating Systems and System Security courses

## EXPERIENCE

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### Duke University

February 2019 - Present

*Associate in Research*

*Durham, NC*

- Helping run Duke's 4 course C programming specialization, assisting students learning C
- Rebuilt the back-end of the practice programming environment, a web endpoint for students to write and run their code - an xterm.js app with token authentication
- Improved existing assignments and wrote new ones in C/C++ including a barrier and parallel quicksort

### Assured Information Security

June 2017 - August 2017

*Software Engineer Intern*

*Rome, NY*

- Tested outsourcing the Xenstore to stub-domain on Xen and on OpenXT
- Integrated and tested guest UEFI and Secure Boot support onto OpenXT
- Tested prototype nested virtualization patch sets on OpenXT to support non-functional Windows Hyper-V features

### Circadence Corporation

June 2016 - August 2016

*Software Engineer Intern*

*Boulder, CO*

- Fixed a non-functional SNMP agent written in Java for network hub monitoring
- Researched several different Load Balance solutions on the Azure platform
- Configured and tested an LVS-NAT Load Balancer in a Cent-OS test environment

## PROJECT HIGHLIGHTS

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**Areyouboard?** Turning bored gamers into board gamers - <http://areyouboard.info>

- Python3 Flask Web application designed to make board game recommendations
- Utilizes advanced query techniques such as SVD, TF-IDF Vectorization, sentiment analysis etc

**LiteTrader** Algorithmic Trading Platform built on AWS

- Python3 application to algorithmically trade cryptocurrency on a users AWS account
- Features include GDAX trading, simple trading algorithms and basic fault tolerance mechanisms

## TECHNICAL STRENGTHS

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### Computer Languages

Python, C, Java, OCaml, C++, Javascript, x86 asm, RISCv asm

### Databases

MySQL, PostgreSQL, LevelDB

### Tools

Git, Vim, Docker

### Technologies

AWS: Compute, S3, MTurk, Google Cloud: Kubernetes, App Engine