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Will Ronchetti

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EDUCATION

Ithaca, NY **Cornell University** **December 2018**

- Completed a Bachelor of Arts and currently pursuing a Master of Engineering in Computer Science. GPA: 3.43

Object-Oriented Programming | Functional Programming | Computer Architecture | Operating Systems | System Security | High Performance Systems and Networking | Distributed Consensus and Blockchains | Cloud Computing | Algorithms | Natural Language Processing

EMPLOYMENT

Software Engineer Intern **Assured Information Security** **Summer 2017**

- Increased security on the Xen platform by outsourcing the xenstore to a stub-domain
- Integrated and tested guest UEFI + Secure Boot support onto OpenXT
- Tested a prototype nested virtualization patch on OpenXT to support currently non-functional Windows Defender features for greater security

Software Engineer Intern **Circadence** **Summer 2016**

- Fixed a non-functional SNMP agent for network hub monitoring
- Configured and tested an LVS-NAT Load Balancer in a CentOS test environment as a proof of concept

Teaching Assistant **Cornell University** **Fall 2016 – Present**

- TA for both OS and Security with project courses.
- Held office hours, teach review and other help sessions, handle grading logistics etc.
- Built an autograder to reduce hand grading and save time on the OS project

PROJECT HIGHLIGHTS

- **Are You Board? (2018) –** Python3 Flask web application designed to make board game recommendations based on user input. Performed several query techniques such as SVD, TF-IDF Vectorization, review sentiment analysis etc. Primarily responsible for all things backend and deployment. The website is hosted on Kubernetes. Previous deployments were on Google's App Engine and on Heroku. Web: http://www.areyouboard.info/
- **LiteTrader (2018) –** Python3 Distributed Algorithmic Trading Platform. Leveraging Amazon Web Services (EC2 and S3), we built a system where users can register using their AWS and GDAX keys to run algorithmic cryptocurrency traders with 24/7 uptime. Primarily responsible for designing the system and building the cloud infrastructure and fault tolerance mechanisms.

LANGUAGES AND TECHNOLOGIES

- Python, C, Java, OCaml, basic SQL, x86 asm
- TCP/IP Stack, Git, Xen/OpenXT, Amazon Web Services Compute/S3/MTurk, Google Cloud Kubernetes/App Engine, Heroku, Bitcoin and other Blockchain Technology, Tor, Flask, MySQL, LevelDB, Unix Systems (CentOS, Red Hat, Debian etc), Docker (creating, working in and deploying containers), VirtualBox, Operating Systems, General Security, General Networking