Aaron Hadley

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(407) 401-3174

Undergraduate student with experience in cryptography and quantum information seeking a full time position in research, cybersecurity, or software engineering

EDUCATION

University of Central Florida, Orlando, FL
Bachelor of Science : *Computer Science* : *GPA: 3.2*
Minor : *Mathematics*

DEC 2019

Undergraduate coursework in cryptography, advanced engineering mathematics, quantum computing, and quantum information theory

RESEARCH

Theorem Proving with Deep Reinforcement Learning,
UCF Computer Science Department
Dr. Sumit Jha

JAN 2019 – PRESENT

Began project researching how to apply deep learning techniques to theorem proving software.

Quantum Information Group, UCF Physics Department

SEPT 2018 – PRESENT

Weekly journal clubs discussing simulation of quantum systems, condensed matter physics, and quantum communications.

PROJECTS

Random Bag of ... — *Personal*

Wrote a quantum random number generator using IBM's quiskit platform

Built a flask app that used Zinc API, with the QRNG to fill an Amazon cart with random items.

CPU Cache Simulator — *Coursework*

Wrote a simulation of a CPU cache using various cache sizes, associativities, and replacement policies,

Ran experiments to determine the benefits of each parameter.

SKILLS

Proficient in C and Python

Knowledge of modern and classical cryptosystems

Scientific computing with numpy and pyplot

Experience in Java

Command line and bash scripting

VOLUNTEER

Junior Knights, Orlando, FL

OCT 2018 – PRESENT

Writing material and leading weekly classes in Python and C for middle and high school students.

WORK

University of Central Florida,
Teaching Assistant

JAN 2019 – PRESENT

Undergraduate teaching assistant for Intro to Programming in C, and Systems Software

Target, *General Merchandise Expert*

SEPT 2017 – AUG 2018

Organizations

Collegiate Cyber Defense Club

Collegiate Mathematical Society