

# Aaron Hadley

Undergraduate student seeking a full time position in research, cybersecurity, or software engineering

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Orlando, Florida  
(407) 401-3174

## EDUCATION

Bachelor of Science: Computer Science GPA: 3.1  
Minor: Mathematics

University of Central Florida

Expected December 2019

Orlando, FL

### Undergraduate Coursework:

- Cryptography
- Computer Architecture
- Operating Systems
- Digital Forensics

### Graduate Coursework:

- Quantum Computing
- Quantum Information Theory
- Advanced Engineering Mathematics

## RESEARCH

Theorem Proving with Deep Reinforcement Learning

UCF Computer Science Department

January 2019 – Ongoing

- Investigating deep learning techniques for automated theorem proving software.
- Using Microsoft's Lean prover to interact with a deep learning interface.

Quantum Information Group

UCF Physics Department

October 2018 – Ongoing

- Participating in weekly journal clubs discussing advanced topics in:
  - Simulation of quantum systems
  - Condensed matter physics
  - Quantum communications
- Preparing regular presentations on quantum cryptography and key distribution.

## PROJECTS

RandomBag.net

KnightHacks 2019

- 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.

KnowledgeBytes

Shellhacks 2019

- Winner of Microsoft "Azure Hack for Good" prize.
- Used Azure Custom Vision to identify 20 animal species
- Parsed and summarized data from 4 knowledge domains using Wolfram Alpha, Wikipedia, and Azure Text Analytics

## SKILLS

C Python Java Go



Cryptography



Scientific Computing

with numpy and matplotlib



API Development

with flask



bash/zsh



Russian

Startalk Certification



## WORK

Teaching Assistant

University of Central Florida

January 2019 – Present

Assisting students by providing hands-on programming help and constructive feedback. Grading exams and programming assignments for:

- Introduction to Programming in C
- Systems Software

General Merchandise Expert

Target

2017 – 2018

Winter Park, FL

## VOLUNTEER

Instructor

Junior Knights

2018 – Present

Orlando, FL

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