

# Kirk Elifson

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## Education

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### University of Central Florida

*B.S. Interdisciplinary Studies (Computer Science, Physics, Public Policy)*

• Relevant classes taken: Intro to C Programming, Computer Science I & II, Cryptography & Network Security, Security in Computing, Object Oriented Programming

**Orlando, FL**

2012–2017

## Experience

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### Amazon

*Security Engineering Intern*

**Seattle, WA**

May 2017–August 2017

### On the Board

*CTO, (Ruby on Rails, Debian, [ontheboard.com](http://ontheboard.com))*

**Remote**

October 2016–Present

### Raytheon

*Vulnerability Research Intern*

**Arlington, VA**

June 2016–August 2016

### Preferred Athlete Scouting Services

*CIO, (Ruby on Rails, Debian, [preferredathlete.com](http://preferredathlete.com))*

**Remote**

June 2015–Present

- Managing all technical requirements.
- Developing the scouting report web-application.

### GuidePoint Security

*Application Security Intern, (Checkmarx, Ruby on Rails)*

**Remote**

June 2015–June 2016

- Developed an internal Rails application to build reports for clients.
- Analyzed and reported vulnerabilities in client code using static analysis tools.

### QTR Systems

*Junior Software Developer, (C#, Python)*

**St. Petersburg, FL**

April 2014–March 2015

- Developed the backend of a staff portal that displays patient location on a map, and an administration interface for managing residents.

## Extra-curricular

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- Co-founder of Hack@UCF:
  - Presented on Linux fundamentals at the weekly club meeting.
  - Spoke to Tampa Preparatory School students about the club and our competitions.
  - Panel speaker at ScholarCon 2015 on founding of Hack@UCF.
- Knightsec CTF team:
  - Solved challenges in: OpenCTF, CSAW Quals, and MITRE CTF.
  - Placed 8th in CSAW Finals 2015 at NYU Poly in Brooklyn, NY.
  - Placed 10th in Microsoft Build the Shield 2015 Finals in Redmond, WA.
- Attended DEFCON 20 and 23 (2012, 2015) and B-Sides Tampa (2014, 2015).
- Presented "Ruby, rvm, and Rails" at the Knight Hacks workshop.
- Other interests: Rocket launches, electric cars, camping, and whitewater kayaking.
- Boy Scouts of America: Awarded rank of Eagle Scout (2012), and Vigil Honors in Order of the Arrow (2013).

## Skills

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- Programming languages: Ruby, C, Python, C#, and x86 NASM.
- System administration: Administrator of multiple Debian servers running email, web, and game servers.

## Projects

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### SignalFlare (Ruby)

(source: [github.com/kirkelifson/SignalFlare](https://github.com/kirkelifson/SignalFlare))

April 2015

- Gem to update DNS records for servers with dynamic IP addresses.

### Scanner (Python, SQLite, Arch Linux)

with Sam Edley (source: [github.com/kirkelifson/Scanner](https://github.com/kirkelifson/Scanner))

October 2012

- Headless checkpoint system designed for Florida campsites utilizing Raspberry Pis and barcode scanners.