

# Kirk Elifson

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## Education

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### University of Central Florida

Orlando, FL

*B.S. Interdisciplinary Studies (Computer, Physical & Behavioral Sciences)*

August 2012–December 2017

- Courses: C Programming, Computer Science I & II, Security in Computing, Object Oriented Programming
- Co-founder of Hack@UCF

## Experience

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### Hinge Health ([hingehealth.com](http://hingehealth.com))

San Francisco, CA

*Senior Backend Engineer (Ruby on Rails, GraphQL)*

March 2018–Present

- Developing the Ruby on Rails API
- Led upgrade from Rails 4 to Rails 5
- Reviewing application security and patching vulnerabilities

### Preferred Athlete Scouting Services ([preferredathlete.com](http://preferredathlete.com))

Remote

*CIO (Ruby on Rails, Debian)*

June 2015–Present

- Developing the scouting report web-application
- Improving the quality of women's basketball scouting software, and helping promote talented athletes

### Amazon

Seattle, WA

*Security Engineer Intern (Python, AWS)*

May 2017–August 2017

- Developed foundation for an automated threat response framework
- AWS infrastructure: Lambda, DynamoDB, SQS, API Gateway

### On the Board ([ontheboard.com](http://ontheboard.com))

Orlando, FL

*Lead Developer (Ruby on Rails, Debian)*

October 2016–November 2017

- Led development of the Ruby on Rails recruiting web-application

### Raytheon

Arlington, VA

*Vulnerability Research Intern*

June 2016–August 2016

- Researched deserialization vulnerabilities
- Expanded upon publicly available tooling for faster class searches

### GuidePoint Security

Orlando, FL

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

June 2015–June 2016

- Developed internal Rails web-application for report generation
- Analyzed, reported vulnerabilities using static analysis tools

## Extra-curricular

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- Co-founder of Hack@UCF
  - Computer security club, one of the largest student organizations on campus
  - Presented to Tampa Prep students about Hack@UCF and Capture the Flag competitions (CTFs)
- Knightsec CTF team
  - Solved challenges in OpenCTF, CSAW Quals, and MITRE CTF
  - Placed 8/16 at CSAW Finals 2015, 10/50 at Microsoft Build the Shield Finals 2015
- Attended DEFCON 20, 23, 25 and B-Sides Tampa 2014 & 2015
- Used to attend nearly every SpaceX rocket launch from Cape Canaveral, fan of early '90s drum and bass, Eagle Scout

## Projects

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### Parking Scrape

[github.com/kirkelifson/parking-scrape](https://github.com/kirkelifson/parking-scrape)

October 2017

- Scrapes UCF parking data, runs as a cron job

### SignalFlare

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

April 2015

- Ruby gem updating DNS records for servers with dynamic IP addresses