

# Kirk Elifson

Merritt Island, FL

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## Experience

### TestFit ([testfit.io](https://testfit.io))

Senior Backend Engineer (Ruby on Rails)

Remote

August 2022–Present

- Building a Rails app to share building designs

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

Remote

CIO (Ruby on Rails)

June 2015–Present

- Developing a Rails app for scouting women's basketball athletes
- Supports dozens of collegiate coaching teams across the US with recurring subscriptions
- Accepts payments for events, sends real-time notifications to coaches via Twilio, colleges search for players using extensive filters
- 99.99% uptime, active error monitoring with Sentry, endpoint response time alerting using NewRelic

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

San Francisco, CA

Senior Backend Engineer, & Site Reliability Engineer (Ruby on Rails, Terraform, Kubernetes) March 2018–April 2022

- Led development of primary app features including group discussions, push-notification reminders
- Actively refactored and optimized the monolith; cleaned up 30k LOC, introduced jemalloc preventing ongoing container crashes
- Security team member; performed secure code reviews, and audits of CVE remediations
  - Actively discovered and fixed multiple vulnerabilities including RCE and XSS
  - Remediated vulnerabilities from pentests
- Led upgrade from Rails 4 to Rails 5
- Submitted Terraform PRs, completed LFS258 Kubernetes Fundamentals

### 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

### Raytheon

Arlington, VA

Vulnerability Research Intern (Java)

June 2016–August 2016

- Researched Java deserialization vulnerabilities

### GuidePoint Security

Orlando, FL

Application Security Intern (Ruby on Rails)

June 2015–June 2016

- Developed internal Rails app for security report generation
- Searched and reported vulnerabilities to clients using Checkmarx, a static analysis tool

## Education

### 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-founded Hack@UCF Fall of Freshman year (2012)
  - Computer security club; grew to largest non-greek student organization with hundreds of active members
  - Competed and solved challenges in competitions including OpenCTF, CSAW Quals, MITRE CTF
  - Placed 8/16 at CSAW Finals 2015, 10/50 at Microsoft Build the Shield Finals 2015
  - Attended DEFCON 20, 23, 25, 27 and B-Sides Tampa 2014 & 2015

## Open source

### Parking Scrape

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

October 2017

- Parses HTML parking data provided by University of Central Florida every 5 minutes

### SignalFlare

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

April 2015

- Ruby gem for updating DNS records regularly to support dynamic IPs in Cloudflare