

Kirk Elifson

Merritt Island, FL

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Experience

Preferred Athlete Scouting Services (preferredathlete.com)

Tampa, FL

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)

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

October 2017

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

SignalFlare

github.com/kirkelifson/SignalFlare

April 2015

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