Kirk Elifson

Merritt Island, FL

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Experience

Preferred Athlete Scouting Services (preferredathlete.com)   **Remote**
Founding Engineer (Ruby on Rails)   *June 2015–Present*
- Solo-developed the Rails app for collegiate coaches to track rankings of women's basketball players
- Added SMS notifications to update subscribers on player ranking changes using Twilio
- Integrated error monitoring with Sentry, and endpoint response time alerting using NewRelic
- Over a hundred collegiate teams across the US subscribe annually

TestFit (testfit.io)   **Remote**
Senior Backend Engineer (Ruby on Rails)   *August 2022–June 2024*
- Developed a greenfield Rails application for site planners to organize and share their projects with coworkers and clients
- Worked with the desktop team to create an API for syncing projects
- Created in-house RBAC system to manage user permissions and roles within organizations
- Migrated legacy PHP server's user and licensing database and functionality to Rails

Hinge Health (hingehealth.com)   **San Francisco, CA/Remote**
Senior Backend Engineer (Ruby on Rails, Terraform, Kubernetes)   *March 2018–April 2022*
- Led development of group discussions, push-notification reminders
- Led major-version Rails upgrades from 4 to 6
- Led creation of the GraphQL API and ensured types did not expose sensitive data
- Refactored the monolith cleaning up 30k LOC
- Introduced jemalloc to prevent container crashes when deploys were not frequent
- Worked on the security team performing code reviews and remediated CVEs reported through external pentests
- Discovered and fixed multiple vulnerabilities including RCE and XSS

Amazon   **Seattle, WA**
Security Engineer Intern (Python, AWS)   *May 2017–August 2017*
- Developed foundation for an automated threat response framework written in Python
- AWS infrastructure for the project utilized Lambda functions, DynamoDB, SQS, and API Gateway
- Designed the framework to be modular for future expansion with additional response playbooks

Raytheon   **Arlington, VA**
Vulnerability Research Intern (Java)   *June 2016–August 2016*
- Researched Java deserialization vulnerabilities
- Developed a tool to scan for potentially vulnerable object paths
- Presented findings to Raytheon engineers and leadership

GuidePoint Security (guidepointsecurity.com)   **Remote**
Application Security Intern (Ruby on Rails)   *June 2015–June 2016*
- Developed internal Rails app for generating reports from templates as Word documents
- Wrote vulnerability assessments for clients, utilizing the Checkmarx static analysis tool
- Reported findings to clients and provided remediation advice

Education

University of Central Florida   **Orlando, FL**
B.S. Interdisciplinary Studies (Computer Science, Physics & Behavioral Science)   *August 2012–December 2017*
- Courses: C Programming, Computer Science I & II, Security in Computing, Object Oriented Programming
- Co-founded computer security club Hack@UCF Freshman year (2012)
  - Became largest student organization with over 300 active members
  - Presented multiple times on various security topics at weekly meetings
  - Gave presentation on web-app security to Tampa Prep High School students

Extra-curricular

- Solved challenges in various competitions including: OpenCTF, CSAW, MITRE CTF
- Placed 8/16 at CSAW Finals 2015, 10/50 at Microsoft Build the Shield Finals 2015
- Attended DEFCON 20, 23, 25, 27, 30 and B-Sides Tampa 2014 & 2015
- Eagle Scout (2012), Order of the Arrow Vigil (2011)