

Lauren Hastings

(727) 686-7249 • lhastingsa@gmail.com • hastingsl.github.io

Experience

Apple, Inc.

TV Systems QA Automation Intern

Cupertino, CA

May 2016–August 2016

- Developed a Python framework for automated end-user scenario testing of iOS device AirPlay to Apple TV
- Developed a general-purpose Python library to validate media playback through audio and video detection; supports video validation via OpenCV image comparison, OpenCV web-cam motion detection, or Raspberry Pi color sensor analysis
- Working cross-team, integrated media playback validation tool as endpoint in existing Raspberry Pi Ruby server project

Intel

Design Automation Intern

Chandler, AZ

May 2015–August 2015

- Programmed Perl automation and tool extension scripts to streamline team's pre-silicon validation Linux environment
- Developed a Perl tool extracting errors, warnings and metadata from regression test logs for use in validation team decision making; led to the isolation of unusually long-running tests and a 20% decrease in test time
- Upgraded, configured, and provided primary support for team continuous integration tool, led consultations on tool use

University of Central Florida

Security Intern

Orlando, FL

January 2015–May 2015

- Conducted both client-side web and social engineering penetration tests of university infrastructure
- Working with fellow interns, participated in weekly team-building CTF practices focusing on web application security
- Built proof-of-concept project demonstrating Chef server provisioning of LAMP stacks on Windows and Linux virtual machines, authored an internal paper assessing the use of Chef and Vagrant for IT department consideration

MITRE Corp.

Software Developer Intern

Tampa, FL

June 2014–December 2014

- Designed, developed and authored content for internal ASP.NET website aimed to increase volunteer involvement by educating employees on company STEM outreach initiatives; used HTML, CSS and JavaScript
- For Intern Program SharePoint, defined and implemented workflows aggregating intern program metrics for visualization on STEM outreach site

Education

University of Central Florida

B.S. in Computational Applied Mathematics, Minor in Computer Science, **GPA: 3.73**

Orlando, FL

August 2015–May 2018

- Attending on a full-tuition merit scholarship awarded to less than 10% of admitted Honors College freshmen
- **Upcoming Courses:** Systems Software, Operating Systems, Programming Languages, Statistical Theory I & II
- **Completed Courses:** C Programming, Algorithms & Data Structures, Computer Logic & Organization, Computer Architecture, Discrete Mathematics, Introduction to Graph Theory, Technical Writing & Presentation, Engineering Leadership

Industry Training: Python Programming, x86 Architecture (MITRE), Open Verification Methodology (Intel)

Leadership

University of Central Florida

COMPASS Mentor

Orlando, FL

August 2016–December 2016

- Co-mentor 8 undecided, STEM-interested freshmen in subject & career exploration culminating in choosing a major
- COMPASS program designed to increase talent-retention in STEM disciplines at UCF

Teaching Assistant

August 2015–May 2016

- Held weekly tutoring hours and graded programming assignments for 200-student introductory C Programming class
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Skills & Technologies

Proficient: C, Java, Python, JavaScript, HTML & CSS, Git, Unix/Linux, object-oriented & functional programming, Agile

Experience with: Perl, Lua, PHP, C#, Ruby, MIPS Assembly, OpenCV, Sass, Chef, Vagrant, MediaWiki, SharePoint, LaTeX