Lauren Hastings

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Experience

Research Assistant	**University of Central Florida**	**August 2016–Present**

- Assisting a PhD student in developing models of ADHD teen driving from observational machine learning
- Working in Intelligent Systems Lab using C++, SVN, CMake and MATLAB
- Project in collaboration with Drexel University and The Children's Hospital of Philadelphia

Software Engineering Intern	**Apple**	**May 2016–August 2016**

Apple TV Systems QA Automation
- Developed a Python and JavaScript framework to perform end-to-end user-scenario tests of iOS AirPlay to Apple TV
- Served as lead for team's AirPlay QA, scheduled tests, triaged bugs and worked cross-team to coordinate test efforts
- Developed a solution to validating media playback using Python OpenCV to analyze motion in external video capture
- Integrated media validation tool as endpoint in Raspberry Pi Ruby Puma server for scalable testing

Design Automation Intern	**Intel**	**May 2015–August 2015**

- Programmed Perl scripts to automate manual processes in team's pre-silicon validation Linux test environment
- Developed a Perl tool extracting, analyzing, and reporting metadata from regression test logs to a PHP dashboard for use in validation team decisions; led to the isolation of unusually long-running tests and a 20% decrease in test time
- Upgraded, configured, deployed and provided continuing support for team's internally developed continuous integration tool; led consultations on tool use to remote teams

Security Intern	**University of Central Florida**	**January 2015–May 2015**

- Conducted both client-side web and social engineering penetration tests of university infrastructure
- Built proof-of-concept project demonstrating Chef server provisioning of LAMP stacks on Linux and Windows virtual machines, authored an internal paper assessing the use of Chef for central IT consideration
- Developed an internal Django application to generate and store PDF work directives in a MySQL database

Software Developer Intern	**MITRE**	**June 2014–December 2014**

STEM Programs Website
- Co-designed and developed internal ASP.NET website educating employees on company STEM outreach initiatives using HTML, CSS, JavaScript and jQuery; developed in Agile iterations
- Implemented workflows aggregating intern program metrics for visualization on website

Air Force Portfolio Division Blueprint Wiki
- Redesigned site UI using HTML, CSS, JavaScript and Bootstrap; implemented as MediaWiki skin
- To improve maintainability, converted existing WikiText templates to simplified Lua modules

Education

University of Central Florida	**Orlando, FL**	**2014–2018**

B.S. in Computational Applied Mathematics, Minor in Computer Science, G.P.A: 3.73
- Attending on a full-tuition merit scholarship awarded to less than 10% of admitted Honors freshmen
- **Current Courses**: Computational Theory, Statistical Theory I, Linear Algebra
- **Completed Courses**: Algorithms & Data Structures, Object-Oriented Programming, C Programming, Computer Logic & Organization, Computer Architecture, Discrete Mathematics, Introduction to Graph Theory, Statistical Methods I, Engineering Leadership, Technical Writing & Presentation

Leadership

COMPASS Mentor	**University of Central Florida**	**August 2016–Present**

- Co-mentor 5 undecided, STEM-interested freshmen in major/career exploration culminating in choosing a major

Teaching Assistant	**University of Central Florida**	**August 2015–May 2016**

- Held tutoring hours and graded programming assignments for 200-student introductory C programming class

Languages & Technologies

Proficient: C/C++, Java, Python, JavaScript, HTML & CSS, Object-oriented & functional programming, Git, Unix, Scrum
Experience with: Lua, PHP, C#, Ruby, Perl, MIPS Assembly, Django, OpenCV, Sass, Chef, Vagrant, MediaWiki, LaTeX