

Joseph Randall Hunt

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Education

- **Western Carolina University** Cullowhee, NC
B.S., Computer Science (Grades: 80%) Aug. 2009 - May. 2012
 - Relevant courses: Data Structures, Software Engineering, Wireless Sensor Networks, Internet Security and Ethics, Computer Graphics, Calculus, Discrete Mathematics, Statistics, Computer Networking, Computer Organization
- **Punahou Academy** Honolulu, HI
High School 2005-2009
 - Graduated with Honors. Deans' list every year. One of four seniors out of 400 selected for special recognition by the faculty. High scores on SAT/ACT/AP exams.

Work Experience

- **SpotOn** New York, NY
Software Engineer May 2011 - Oct. 2011
 - Designed and implemented a collaborative filtering recommendation engine in Python and C which improved recommendation speed by %300. Used SciPy and NumPy to dramatically increase speed.
 - Wrote scripts to automate deployment and logging of Amazon Web Services. Used the boto Python framework.
 - Designed and coded the company landing page.
- **NASA Ames Research Center** Mountain View, CA
Software Engineer Jan. 2011 - May. 2011
 - Created an Automatic KML Tour Generator and KML Tour Editor using Django, Python, SQL, and Javascript. Media import tool pulls from several different sources and loads all data into a database. Project generated a whole new set of data products for the Maps team.
- **NASA Langley Research Center** Hampton, VA
Software Engineer May 2010 - Aug. 2010
 - Worked on several tools for mass properties evaluation which culminated in the design a mass properties API. Also worked with an 8 person team to design and evaluate a series of tests on a flotation concept. If implemented project could save millions of dollars. Findings were published to NASA's main webpage, AIAA newsletter, and several other notable websites.
- **Western Carolina University** Cullowhee, NC
Various Roles Aug. 2009 - May 2011
 - Resolved IT issues for students and faculty. Also taught several workshops on web development.
 - Assisted professor and students in introductory computer science courses as a TA.
 - Maintained the computer science lab computers running Linux, Windows, and OSX with several VMs. Created scripts to automatically update and backup all computers and all VMs. Managed backups leading to a %5 decrease in downtime from previous administrator.

Skills

Languages: C, Java, Python, Javascript, PHP, Ruby, Prolog, HTML/CSS, SQL, LISP, MIPS, Objective-C, French, German, Spanish

Systems/Tools: OS X, Linux (CentOS, Gentoo, Ubuntu, Debian), Windows, MySQL, MongoDB, vim, emacs, xcode

Frameworks/APIs: jQuery, node, processing, pyramid, django, SciPy, NumPy, Foursquare, Facebook, Google (maps, translate, docs, etc.), cocoa, ant, junit

Honors/Awards/Presentations

- Third Place HackNY Fall 2011 Hackathon (out of 25 teams and 150 competitors)
- HackNY Fellow (one of 35 students selected to intern at NYC startups)
- Deans List, Honors College
- Featured in Honor's College "Imagine" magazine
- Only student representative on Academic Technology Committee
- AP Scholar's Award
- Several presentations at NASA

Activities and Societies

- IEEE Member
- [Student ACM Chapter](#)
- [Open-Source Contributor](#)
- Active on [StackOverflow](#)
- Passionate about Robotics [\[1\]](#) [\[2\]](#)
- [Rubik's Cubes](#)

Coursework and Independent Projects

- [Mosaic Machine](#)
- [LoCreep](#)
- Multiuser Chat System in Java
- Set Associative Cache Simulator in Java
- Tokenizer and Parser in C
- Wireless Sensor Grapher in TinyC+Java
- TCP Implementation in TinyC
- Adventure Game in Prolog

References

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