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Work Experience

- **10gen – The MongoDB Company** — New York, NY
  Developer Evangelist and Build Engineer — *June 2012 – Present*
  - Managed Continuous Integration (buildbot, jenkins, travis).
  - Managed buildslaves and substantially reduced operational costs of AWS buildslaves. ($10000s)
  - Attended conferences and gave technical presentations on devops, mongodb, and python.
  - Contributed heavily to several open-source projects.
- **Fondu (formerly SpotOn)** — New York, NY
  Software Engineer — *May 2011 – Oct. 2011*
  - During a HackNY Fellowship I designed and implemented a collaborative filtering recommendation engine in Python and C which improved recommendation speed (response and pre-calculations) by 800%. Used SciPy, NumPy, and Weave to dramatically increase speed.
  - Wrote python scripts to automate deployment and logging of Amazon Web Services.
- **NASA Ames Research Center** — Mountain View, CA
  Software Engineer — *Jan. 2011–May. 2011*
  - Created an KML Tour generator and editor using django, python, SQL, and javascript.
  - Programmed a specialized media import tool which pulls media and meta-data from several different sources into a central database. Project generated a whole new set of data products for the maps team.
  - Worked on team of two to develop better navigation algorithms for rovers.
- **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 of a mass properties API.
  - Also worked with an 8 person team to design and perform a series of tests on a flotation concept. Project could save 2.5 million dollars if implemented. Findings were published to NASA's main web-page, AIAA newsletter, and several other notable websites.

Education

- **Western Carolina University** — Cullowhee, NC
  Computer Science — *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. Dean's list every year. One of four seniors out of 400 selected for special recognition by the faculty. High scores on SAT/ACT/AP exams.

Skills

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

Systems/Tools: General DevOps, OS X, Linux (CentOS, Gentoo, Ubuntu), Chef, Puppet, Windows, MongoDB, vim, emacs, XCode

Frameworks/Platforms/APIs: jQuery, nodejs, django, rails, SciPy, NumPy, Foursquare API, Facebook APIs, Google APIs, drupal, wordpress, heroku, twilio

Honors/Awards/Presentations

- HackNY Fall 2011 Hackathon(out of 25 teams and 200 competitors)
- HackNY Fellow and Mentor
- Deans List, Honors College
- Featured in Honors College "Imagine" magazine
- 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

Relevant Coursework and Independent Projects

- Mosaic Machine in javascript
- LoCreep in Python, javascript, and NodeJS
- 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