

J. Randall Hunt

Resumé

WORK EXPERIENCE

JUNE 2012 – PRESENT

Python Engineer

THE MONGODB COMPANY

Managed continuous integration (buildbot, jenkins, travis) across multiple platforms (FreeBSD, Windows, Linux, OSX). Substantially reduced cost of maintaining builds (slaves (\$10000s per month)). Attended conferences and gave technical presentations on devops, mongodb, and python. Contributed to several open-source projects.

MAY 2011 – OCT 2011

Python Engineer

HACKNY, FONDU

Designed and implemented a collaborative filtering recommendation engine in Python and C which improved recommendation speed (initial response and pre-calculations) by 800%. Used SciPy, NumPy, and Weave to achieve these dramatic speed improvements. Also wrote scripts to automate deployment and logging on Amazon Web Services

JANUARY 2011 – MAY 2011

Undergraduate Researcher

NASA AMES RESEARCH CENTER

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.

JUNE 2010 – AUGUST 2010

Undergraduate Researcher

NASA LANGLEY RESEARCH CENTER

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.

TECHNICAL SKILLS

LANGUAGES: Professional:

c, java, python
HTML/CSS/javascript

Familiar:

ruby, go, prolog, php, C++
perl, Objective-C, LISP

TOOLS AND FRAMEWORKS: general devops, chef, puppet
mongodb, sql, vim, emacs, git

MATHEMATICS: Formal Logic and Proof Techniques,
Linear Algebra, Calculus,
Statistics, Discrete Structures

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EDUCATION

Western Carolina University

Cullowhee, NC

Punahou

Honolulu, Hawaii

Université Catholique De L'Ouest

Angers, France

LANGUAGES

FRENCH Proficient
GERMAN Conversational
SPANISH Learner

RELEVANT PROJECTS (AVAILABLE ON GITHUB)

Gitshots in Python
Multiuser Chat System in Java
Address Book with RMI in Java
Set Associative Cache Simulator in Java
Paint Clone in Java
Email Client in Java
Tokenizer and Parser in C
Wireless Sensor Grapher in TinyC+Java
TCP Implementation in TinyC
Adventure Game in Prolog

AWARDS/PRESENTATIONS/STUFF

HackNY Fellow and Mentor IEEE Member
Student ACM Chapter
Open-Source Contributor
Active on StackOverflow
Passionate about Robotics[1] [2]
Rubik's Cubes
Bicycles! Academic Technology Advisory Committee
AP Scholar's Award
Several Presentations at NASA
Honors College
Won several hackathons