MATTHEW R. DAVIS

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STATEMENT OF PURPOSE

I love Python, data puzzles, and software problems looking for creative solutions. I want to live in California and make life better for people.

EMPLOYMENT

Software Engineer
Space Telescope Science Institute

January 2011 - Present Baltimore, MD

- Use the scientific Python stack to develop data calibration and Hubble Space Telescope observation planning tools
- Worked with staff scientists to enhance an HST data processing pipeline with new corrections (http://j.mp/KYeTJC)

Scientific Programmer
Science Systems and Applications, Inc

September 2008 - January 2011 Lanham, MD

- Provided software and IT support to a NASA scientist at the Goddard Space Flight Center
- Developed software for visualization and processing of Earth science data in a variety of formats, administered a remote web server, and performed scientific analysis
- Nearly all data analysis, processing, and visualization scripts written in Python

Astronomy Laboratory Lecturer
Community College of Baltimore Country

February 2009 - June 2010 Catonsville, MD

• Taught Astronomy 102 evening laboratory during Spring and Fall semesters

VOLUNTEER

Software Carpentry Instructor/Developer software-carpentry.org

February 2012 - Present

- Teach Python, shell, git, and software engineering skills to scientists and engineers, at boot camps and in online sessions (http://j.mp/Rld1me)
- Develop new instructional content for boot camps
- Layout and design of software-carpentry.org using Bootstrap
- Advise and administration for the Software Carpentry GitHub repos
- Curate the Software Carpentry Google+ Page (gplus.to/swcarpentry)

EXPERIENCE

Python

• NumPy | SciPy | pandas

• matplotlib

• Data analysis & visualization

• C and Fortran

• Git | SVN

• nose | pytest

• Mac OS X | bash

JavaScript

• HTML | CSS

• Basic SQL

• Google App Engine

EDUCATION

Astronomy, PhD track University of Washington

Astronomy, MS San Diego State University

Aerospace Engineering with spacecraft design concentration, BS California Polytechnic State University

September 2007 - August 2008

Seattle, WA

June 2008 San Diego, CA

June 2004 San Luis Obispo, CA

CLASSES

Introduction to Artificial Intelligence CS 101 Building a Search Engine CS 253 Web Application Engineering CS 373 Programming a Robotic Car Advanced Python Mastery

www.ai-class.com www.udacity.com www.udacity.com www.udacity.com Dave Beazley

http://j.mp/LyzhzO http://j.mp/NT1Z3y http://j.mp/OBomfh http://j.mp/L49pgv

ONLINE

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