Justin Neill Blythe

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Summary

Specific experience in organizing, problem solving, and communicating status, progress and timely completion of assigned projects; demonstrated proficiency in prioritizing tasks to meet deadlines; adapts readily to new challenges; grasps and applies new procedures quickly; highly-motivated, detail-oriented team player.

Objective

To obtain an entry-level position as a software engineer where my computational and problem solving skills combined with a strong mathematical background will be applied.

Education

B.S. in Physics, Georgia Institute of Technology, Atlanta, GA, May 2013
GPA 3.7 in major, 3.1 overall

Work Experience

Graduate Teaching Assistant, Georgia Institute of Technology, Atlanta, GA
Fall 2013 - Spring 2015

- Taught Physics I and Physics II labs; received high remarks from most students in previous semesters
- Mentor and tutor students enrolled in Physics I and II in the Clough Undergraduate Learning Commons
- Proctor and grade exams

Intern, AnswerRocket, Atlanta, GA Summer 2014

- Automated a client-side QA daemon using Python, Bash and JSON
- Would query the AnswerRocket server when code was pushed to the Git repository and pinpoint any coding errors or dependency issues if a test failed
- More comprehensive tests could be ran on a timer throughout the day and night and email team members the status on completion
- Verbosity of error reports were an issue on client-side; suggested metadata of detailed error reports sent to my automator's IP

Research

Student Researcher, Naval Research Lab, Washington, D.C. Summer 2013

- Used the Long Wavelength Array 1 (LWA-1) in New Mexico to observe approximately 80 pulsars remotely
- Pulsar search and initial analysis done by PRESTO (written in C), further analysis performed by Python scripts/programs
- Studied pulse broadening in pulsar B0950+08, allowing us to approximate the sensitivity of LWA-1
- Reference: `http://arxiv.org/abs/1410.7422`

Undergraduate Researcher, Center for Relativistic Astrophysics, Atlanta, GA
Fall 2012 - Spring 2013

- Built a computational model of radiative transfer in neutron star atmospheres
- The "front-end" is written in Python and heavy calculations are done in C
- Vim used for code editing
- SCons used to build the program; Bitbucket used for a versioning system; Doxygen used to document the program
- Coding style based off the paper "Best Practices for Scientific Computing"
- Public Repository: `https://github.com/jbbskinny/NSatmo`

Academic Honors

Dean's List of Distinguished Students, Georgia Institute of Technology, all semesters
Graduated Highest Honors, Georgia Institute of Technology
Certificate in Astrophysics, Georgia Institute of Technology
Naval Research Enterprise Internship Program Fellowship

Personal Interests/ Activities

Backpacking and Camping
Open-source contributions
Golf
Soccer
Xbox

Computer Skills

Languages:	Bash, C, Fortran, HTML/CSS, Javascript, LaTeX, MySQL, Python
Software:	Git, Mathematica, MATLAB, Mercurial, Vim
Platform:	Macintosh (Mac), Ubuntu, Windows
Web Framework:	Django, Node.js

GitHub

`https://github.com/jbbskinny`