

Skyler Berg

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Education

Bachelor of Science in Computer and Information Science
University of Oregon
GPA 3.93

Expected June 2015

Skills

Languages: Python, Java, C/C++, JavaScript, HTML, CSS
Software: Git, SVN, L^AT_EX, Vim, Eclipse, Dia

Experience

Network & Security Research Lab, University of Oregon

June 2013 - Present

Student Researcher, NSF REU

- Acted as student lead in designing a new approach to DDoS defense
- Edited code for a social network to have cross-platform compatibility
- Improved documents including a paper accepted at INFOCOMM 2014 and four research proposals

Advanced Projects Lab, Physics Department, University of Oregon

June 2013 - Present

Student Researcher, Parallel Computing

- Implemented parallel Fast Fourier Transform using C and MPI on a Beowulf cluster
- Rebuilt cluster from scratch after the some nodes' operating systems were damaged

Economics Department, University of Oregon

June 2013 - December 2013

Consultant/Developer

- Created a dynamically self-adjusting survey which was deployed in Zanzibar
- Improved a system for determining social connections based on survey responses

Campus Writer, University of Oregon

June 2013 - October 2013

Student Researcher/Developer, Universal Access

- Used Google App Engine to manage data for UO Department of Education researchers
- Used Backbone and Underscore to create a flexible and intuitive user interface
- Created a feature to allow researchers to replay keystrokes made during the study

Projects

UO-OCR

- Leading team of five students to create an optical character recognition program in C++

Election 2016

- Created multithreaded, client/server based two player game using Python and PyGame

Dungeon Master's Best Friend

- Made GUI-based character generator for role-playing games using Python and Tkinter

Awards and Honors

- \$10,000 Research Experience for Undergraduates Scholarship
- University of Oregon Presidential Scholarship
- Placed in top $\frac{1}{3}$ in the ACM ICPC Northwest Regionals
- 1st Juilfs Programming Competition