

# 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, C/C++, Java, R, Bash, JavaScript, HTML, CSS  
*Software:* Git, SVN, L<sup>A</sup>T<sub>E</sub>X, Vim, Eclipse, Dia

## Experience

### Network & Security Research Lab, University of Oregon

June 2013 - Present

*Student Researcher, NSF REU*

- Set up virtual network in a VM to practice software defined networking
- Acted as student lead in designing a new approach to DDoS defense
- Used C and Bash to probe the IPv4 space for open DNS resolvers
- Edited code for a social network to have cross-platform compatibility

### 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 node's operating systems were damaged

### Economics Department, University of Oregon

June 2013 - December 2013

*Consultant/Developer*

- Created a responsive 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
- Designed game using UML and follow OOP principles

## 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
- 1<sup>st</sup> Juilfs Programming Competition