

## Alex Hoffer

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**OVERVIEW** Entry level experience in all aspects of the software engineering process, from architectural design to refactoring and testing. Specific interests in human factors on both ends, such as software usability for end users and software maintainability for developers.

**EDUCATION** Bachelor of Science in Computer Science  
Bachelor of Science in Psychology  
Oregon State University, Corvallis, OR  
Expected to graduate Fall 2017  
Partial list of courses taken by Summer 2017: Software Engineering I and II, Web Development, Operating Systems I and II, Mobile and Cloud Software Development, Programming Language Fundamentals, Theory of Computation, Usability Engineering, and Open Source Software.  
GPA: 3.68

**LANGUAGES USED**

- C/C++
- Java
- Python
- SQL
- HTML, CSS, PHP
- Bash Shell Scripting for Linux
- JavaScript
- Microsoft Macro Assembler (MASM)
- R
- LaTeX

**EXPERIENCE** *REU at Oregon State University* May 2016-present  
I am a student researcher under Associate Professor Dr. Anita Sarma and Assistant Professor Dr. Rakesh Bobba. My work concerns the security and privacy of home automation devices, as well as how users configure and use them. Until now, I have spent most of my time doing data analysis on a survey of home automation users that I wrote, but am now pivoting into analyzing the data passed between home automation devices. This opportunity has developed my ability to analyze data (using visualization techniques as well as statistical methodology), design user studies, read technical documents, and understand the security and privacy implications inherent in different network protocol stacks and application layers.

**REFERENCES** Available upon request.