EDUCATION

**University of Illinois at Urbana-Champaign,** Urbana, IL **PhD,** Computer Science, **GPA: 4.00/4.00** **Expected May 2020**

**Oregon State University,** Corvallis, OR **BS**, Computer Science, **GPA: 3.98/4.00**,  
**Thesis:** "Identifying a Ranking of Plant Preferences for a Pollinator", June 2015 **June 2015**

RESEARCH EXPERIENCE kk

**Graduate Research Assistant: University of Illinois at Urbana-Champaign**, Urbana, IL. **August 2015 – Present**  
Conducted a classroom study to see how crowdsourcing feedback helps product design students improve a class project  
Managed 30-60 student participants  
Conducted interviews to determine views of product designers towards receiving feedback through crowdsourcing

**Undergraduate Research Assistant: Oregon State University,** Corvallis, OR **September 2013 – June 2015**  
Modeled a pollinator’s interaction with various plant species in a meadow  
Used a multinomial model and gradient descent to explain the number of visits a pollinator was observed making  
Found that assigning a preference to each plant improved the model   
Cumulated in an undergraduate thesis

TECHNICAL EXPERIENCE

**Validation Intern: Intel Corporation**, Hillsboro, OR. **June 2015 – August 2015**  
Developed a kernel driver for firmware security validation of Intel’s Xeon Phi software stack  
Added two modules to test for unique CPU APIC IDs and correct register access types utilizing Python and C++ extensions  
Cross-compiled the driver to test on the older Xeon Phi Knight’s Corner coprocessor

**Software Intern: Intel Corporation**, Hillsboro, OR. **June 2014 – September 2014**  
Automated tests and created regression tests for the security team of the Intel Xeon Phi software stack for Linux and Windows   
Worked autonomously to write several shell scripts for Linux and Windows to help the automation of the tests  
Reported progress to two full-time employees

PROJECTS

**Charta: A Visual Map of Papers in a Researcher’s Library**, Urbana, IL. **August 2015 – December 2015**  
Developed the user interface using a JavaScript framework as a term project for the User-Interface Design course  
Worked in a group of 5 computer science students at various levels of education  
Created an innovate way to visualize how the ideas in research papers are connected

**Home Sensor to Optimize Energy Use and Save Money**, Corvallis, OR. **September 2014 – June 2015**  
Developed the user interface for a home energy monitoring and control system   
Provided the user information about their energy use and optimized   
Collaborated with electrical engineers

**Wearable Skin Sensor for Research in Music**, Corvallis, OR. **December 2013 – June 2014**  
Collaborated with a Professor of Music to create a device to measure emotional response through skin conductance  
Worked in a team with 2 computer science and 1 electrical engineering student  
Wrote software to visualize and perform computations on data received from the hardware using Node.js, Python, and QT

LEADERSHIP AND TEACHING EXPERIENCE

**Online Tutor: Oregon State University**, Corvallis, OR. **February 2015 – June 2015**  
Worked with online students returning to university with previous backgrounds in non-engineering fields  
Tutored students in Discrete Math and Introduction to Algorithms coursework with proofs and problems in reductions  
Visualized problems for students and helped them convert visuals into equations they could solve

**Undergraduate Teaching Assistant: Oregon State University**, Corvallis, OR. **September 2012 – March 2014**  
Led 2 lab sessions for the Introduction to Computer Science series for a diverse group of students  
Encouraged students to stay with computer science and engineering majors  
Evaluated students objectively through grading assignments and tests  
Communicated feedback about the labs and assignments and suggested solutions to the course professor

SKILLS  
**Quantitative:** Data Analysis, Statistics, Regression  
**Programming Languages (years):** C/C++ (4), Python (4), R (3), MATLAB (2), SQL (1), HTML (1), JavaScript (1) **Soft Skills:** Teamwork, Quick Learner, Communication, Training/Teaching

RELEVANT COURSEWORK  
Research methods in Human-Computer Interaction, Introduction to Human-Computer Interaction, Data-Driven Design, Computer Vision, Natural Language Processing, User-Interface Design, Machine Learning, Artificial Intelligence,

HONORS AND AWARDS  
**Ducilla Shepard Smith Award**, Oregon State University. **2013 – 2015   
Rensselaer Polytechnic Institute Medalist**. **2010**