October 16, 2019

Hi, I'm

Jason Hoffman.

I'm interested in pursuing translational research at the interface of computing technology and human biology with the end goal of building intuitive and inclusive products that increase access to healthcare for a wide range of people.

My **Experience**:

Academic Research in Computer Science and Health Skills: research, computational biology, biomedical engineering	**Graduate Researcher** in **UW UbiComp Lab,** Sept 2019-present • Research on computational solutions to health problems using ubiquitously available technology • Rotating into the UW Synthetic Biology Lab Jan-March 2020 **Research Assistant** in **USC BioMEMS Lab**, Aug 2011-May 2013 • Assisted in design, fabrication, and testing of an implantable, electrically actuated drug delivery pump • Developed a modularized software package for automated data processing, increasing efficiency of processing pump data for the lab by 10x (VB and Matlab) • Summarized background research in MRI compatibility and wrote testing protocols for experiments
Technical Program Management and Organizational Leadership Skills: computer architecture, operating systems, manufacturing, communication, leadership	**Program Manager II** at **Microsoft**, Oct 2014-March 2019 • Planned, specified and delivered firmware and drivers for differentiated first party hardware, including Surface Hub, Surface Duo, and Hololens • Specified, tested, quantified and reported performance of novel sensors in differentiated devices • Provided onsite and remote support and debugging for factory line bring-up in the US and China • Developed bug fixes in UEFI FW code for shipping products (C) • Hackathon-winning projects in computer vision, mobile gaming, and low-cost devices (C#) **Co-Executive Director** of **Troy Camp**, May 2013-May 2014 • Directed non-profit focused on youth education, leading an executive board and 150 general members to create and run tutoring and mentoring programs that serve 200 students annually
Software/Firmware Development Skills: software development, machine learning, entrepreneurship	**Software Engineer** at **Senosis Health**, Dec 2016-Apr 2017 • Developed cross-validation testing for cloud-based machine learning algorithm (Python) • Set up Git integration infrastructure for application that provides early diagnostic indication of jaundice in infants using data from ubiquitous smartphone sensors **Software Engineering Intern** at **Symbio Robotics**, May 2014-Sept 2014 • Developed software to track objects from live incoming video using OpenCV (Python) • Created a demo of an Oculus DK2 VR headset controlling a 3DR quadcopter drone to allow the VR headset to act as a controller and viewer of a gimbal-mounted camera

My **Education:**

Pursuing PhD in Computer Science and Engineering at UW	PhD in **Computer Science and Engineering** from the **University of Washington** • Expected graduation May 2024 BS in **Biomedical/Electrical Engineering** from the **University of Southern California** • Graduated in May 2014 with a GPA of 3.77/4.00

I have other skills and interests:	Ultimate Frisbee, Soccer, Spanish (conversational) Healthcare, youth education *Comfortable*: Python, C++ | *Familiar*: C, Matlab, Java	Reach out for more info:	LinkedIn: jasonhoffman4522 Email: jasonhof@cs.uw.edu