

EXPERIENCE	University of Michigan Computer Science Dept. <i>Graduate Student Research Assistant</i>	Ann Arbor, MI August 2014 - Present
	<ul style="list-style-type: none">– Investigate new computational methods for predicting cardiac complications and morbidities.– Apply machine learning techniques to segregate patients based on predicted postoperative atrial fibrillation risk.	
	iZotope, Inc. <i>Digital Signal Processing Intern</i>	Cambridge, MA Summer 2013
	<ul style="list-style-type: none">– Researched time and spectral pitch detection algorithms for audio pitch correction software.– Implemented and evaluated pitch algorithm candidates and realized 10% improvement from current method, deployed in commercial software.– Developed analysis and visualization frameworks for future algorithm improvements.	
	Digital Design Corporation <i>Software Intern</i>	Arlington Heights, IL Summer 2008/09/10/11/12
	<ul style="list-style-type: none">– Designed and programmed intercom control software suite with a team of engineers.– Developed test equipment, firmware, and various I2C sensors for intercoms with other hardware engineers.– Researched and designed an active noise cancelling system for industrial blowers with a cross-functional team.– Developed test applications for commercial intercom systems in .NET and Python.	
EDUCATION	Masters of Science in Computer Science University of Michigan, Ann Arbor, MI Expected Graduation April 2016 (GPA: 3.65/4.00)	
	Bachelors of Science in Electrical Engineering Tufts University, Medford, MA Eta Kappa Nu officer, Dean's list each term Graduated May 2014 (GPA: 3.73/4.00)	
PROJECTS	Mri: Monitor and validate deep learning models. Watch your deep learning models train via Node.js web dashboard. Use the Python client or Caffe wrapper to train and validate models. Seed Hydroponics: Use machine learning models to grow plants smarter. Provide feedback on your plant's health to the Django server and the Arduino based hardware automatically adjusts growing parameters. iMpact Remix: iOS music app lets you draw drum kits and play your creation. Draw drum pads and iMpact will apply DSP effects based on the shape and size of the pad.	
SKILLS	Software: Linux, Windows, SciPy/NumPy, Caffe, Flask Languages: Python, C, C++, MATLAB, C#, Clojure, Haskell, Assembly Skills: Machine Learning, Deep Learning, Signal Processing, Microprocessors, Hardware	
PUBLICATIONS	Harada N, Saeed M, Baveja S, Syed Z. Evaluating the Utility of a Multi-factorial Computational Model and Simplified Multi-factorial Risk Score to Predict Postoperative Atrial Fibrillation Following Cardiothoracic Surgery, American Heart Association (AHA) Scientific Sessions, 2015.	