

- EXPERIENCE**
- University of Michigan Computer Science Dept.** Ann Arbor, MI
Graduate Student Research Assistant August 2014 - Present
- 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.** Cambridge, MA
Digital Signal Processing Intern Summer 2013
- 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** Arlington Heights, IL
Software Engineer Summer 2010, 2011, 2012
- 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.
- Digital Design Corporation** Arlington Heights, IL
Software Intern Summer 2008, 2009
- Developed test applications for commercial intercom systems in .NET and Python.
- The Burbz Newspaper** Lake Zurich, IL
Website Administrator February 2009 - June 2009
- Managed web-based assets and wrote web-scraping scripts for a local newspaper.
- 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)
- 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.