

Nathan P. Harada

PROFESSIONAL EXPERIENCE

University of Michigan

Graduate Student Research Assistant

Ann Arbor, MI

August 2014 – Present

- Investigate new computational methods for predicting cardiac complications and morbidities
- Apply machine learning techniques to segregate patients based on predicted post-op atrial fibrillation risk

iZotope, Inc

DSP Intern

Cambridge, MA

May 2013 – August 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.
- Developed analysis and visualization frameworks for future algorithm improvements.

Tufts University Lilly Music Library

Student Librarian

Medford, MA

August 2011 – May 2014

- Supervised during library closing, assisted patrons and trained new student workers.

Digital Design Corporation

Software Engineer

Arlington Heights, IL

Summer 2010, 2011, 2012

- Designed and programmed intercom control software suite with a small team of engineers.
- Developed test equipment, firmware, and various I2C sensors for intercoms with other hardware engineers.
- Researched and designed an active muffler system for industrial blowers with a cross-functional team.

Digital Design Corporation

Summer Intern - Software Engineer

Arlington Heights, IL

Summer 2008, 2009

- Tested network loudspeakers and control software. Developed test applications for Windows in .NET and Python.

The Burbz Newspaper

Website Administrator

Lake Zurich, IL

February 2009 – June 2009

- Managed all web-based assets and wrote software scripts for “The Burbz”, a local newspaper.

EDUCATION

University of Michigan

Ann Arbor, MI

- Master of Science in Computer Science anticipated April 2016

Tufts University

Medford, MA

- Bachelor of Science in Electrical Engineering, May 2014
- Cumulative GPA: 3.73/4.00
- Dean’s List each term, Eta Kappa Nu officer

Lake Zurich High School

Lake Zurich, IL

- Graduated June 2010 | Highest Honors in every term | GPA: 3.70/4.00

TUFTS ACTIVITIES

Tufts University Concert Board

2010 – 2014

- Leader of organization that promotes small and large concert performances on campus.
- Booked acts for Spring Fling and Cage Rage – large, campus-wide concerts.
- Managed student volunteers and assisted both talent and production personnel.

Hip-hop for Social Change

2010 – 2011

- Managed and organized two fundraising hip-hop festivals focused on sparking social and political change.

Tufts Men’s Ultimate Frisbee Team

2010 – 2014

SKILLS

- Software: Windows, Linux, Microsoft Office, SciPy/NumPy
- Languages: Python, C, C++, MATLAB, C#, Clojure, Haskell, Assembly
- Skills: Machine Learning, Signal Processing, Noise Cancellation, Microprocessors, Hardware