

# NATHAN TARRH

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## COMPUTER SCIENCE & EDUCATION

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### Education

#### Tufts University

Computer Science and Education

2010-2014 (expected)

GPA: 3.50

CS coursework: Algorithms, Data Structures, Machine Structure & Assembly Language Programming, Programming Languages (Spring '13), Web Programming (Spring '13)  
Education coursework: Observing Theory in Action, Technological Tools for Learning (Spring '13)

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### Experience

#### WMFO Medford — 91.5 FM

Software Development

2012-present

Full-stack software development for student-run community radio station. Projects include: web scraper to find lyrics and flag explicit tracks (digital catalog of ~250 thousand songs), taste profiler using playlist history and Echo Nest API to recommend radio shows to listeners, redesign of station website.

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#### Tufts Center for Engineering Education and Outreach

Research and Teaching Assistant

2011-present

Undergraduate assistant with the Integrating Engineering and Literacy project (NSF-grant-funded). Collection and organization of video data and materials for classrooms. Preparation of materials, demonstrations, and presentations for teacher workshops. LEGO robotics instruction in K-8 student workshops. Design, editing, and preparation of teacher workbooks for professional development workshops. Content creation and maintenance for teacher support website.

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#### The Echo Nest

QA/Marketing Intern

2012

Quality control and feedback for intelligent music listening platform. Research and verification of artist-related content. Search engine optimization of company photos and articles for company website. Direct impact on products used by Clear Channel, MTV, Rdio, and Spotify among many others. Produced a research paper on SaaS using The Echo Nest as a case study in entrepreneurial leadership.

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### Technical

C/C++

Git

Bash scripting

LAMP stack

HTML/CSS

WordPress

Rivendell

Axia Livewire

SHOUTcast

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