

NATHAN TARRH

nate@natetarrh.com

COMPUTER SCIENCE & EDUCATION

Education

Tufts University

2010-2014 (expected)

Computer Science and Education

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)

Experience

WMFO Medford — 91.5 FM

2012-present

Software Development

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.

Tufts Center for Engineering Education and Outreach

2011-present

Research and Teaching Assistant

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.

The Echo Nest

2012

QA/Marketing Intern

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.

Technical

C/C++

Git

Bash scripting

LAMP stack

HTML/CSS

WordPress

Rivendell

Axia Livewire

SHOUTcast
