

Andrew Dempsey

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Education

Tufts University School of Engineering, Medford, MA
BSCS, expected in 2015

Relevant Coursework:

- Machine Structure & Assembly Language Programming
- Computer Networks & Protocols
- Web Programming & Engineering
- Analysis of Algorithms

Skills & Projects

- **Web Development**
 - Server-side development with Node.js/MongoDB, LAMP stack
 - Javascript and AJAX
 - Front-end design using CSS and jQuery
 - Ruby on Rails
- **C/C++, Python, and Ruby**, with projects including:
 - A Universal Virtual Machine, written in C, capable of running small-scale operating systems
 - A program capable of detecting the language of a human-written document
 - An implementation of a hierarchical clustering algorithm
- **Network programming in C**, with projects including:
 - An HTTP server
 - A P2P file transfer system
 - A clandestine messaging fabric
 - A dynamic resource discovery server
- Some experience in **iOS Development and Objective-C**
- Experience in Unix and OS X
- Selected projects available at <http://github.com/adempsey/>

Work Experience

- **IBM Corp.** Connections Automation Engineering Intern (*Summer 2013*)
 - Worked on a team to design and implement a validation tool for the installation of IBM's social business software, Connections
- **Lahey Hospital and Medical Center** Web Engineer (*Summer 2013*)
 - Developed mobile web application to allow neurosurgical patients to communicate levels of pain to their physicians through the Oswestry Disability Index and the Visual-Analog Scale
- **Tufts University Human-Robot Interaction Laboratory** Research Intern (*Summer 2012*)
 - Analyzed human behavior and speech patterns in subjects interacting with artificial intelligence to aid in the future design of robotic products for public consumption
- **Museum of Science, Boston** Information and Interactive Technology Intern (*Summer 2011*)
 - Assisted in deployment of new museum website, designed implementation of SSO system for museum staff members, and beta-tested prototypes for ticket kiosk and reservation system UIs

Other Skills & Achievements

- Extensive experience in film production with Final Cut Pro and Adobe Premiere
 - Won "Best Student Production" in the 2011 Los Angeles Web Series Festival for an entirely self-produced web series, *Nonlocality*
 - Received a grant from the WGBH Open Call project to produce a short documentary on climate change, *Cold Water*, which later aired on television
- 3D modeling and animation in Blender