

Andrew Dempsey

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<https://adempsey.github.io/>

Employment

Box, Inc.
Senior Software Engineer, Mobile
Software Engineer, Mobile
Software Engineering Intern, Mobile
June 2014 - August 2014; August 2015 - present

Developed several features and improvements in the Box suite of iOS clients, including a patent-pending document scanner for [Box Capture](#), a synchronized recent files system, app-to-app authentication with Microsoft Office applications, and a significant UI refactor of the [Box app](#).

Tufts University Computer Science
Department
Teaching Assistant
January 2014 - May 2015

Instructed students and graded assignments in [COMP 20: Web Programming](#) for three semesters. The course introduces students to front-end web development in JavaScript, back-end development using Node.JS and NoSQL databases, and source control management using Git.

IBM Corp.
Engineering Intern
May 2013 - August 2013

Worked on a team of three interns to develop [Sanity](#), an application for detecting installation problems with IBM's [Connections](#) across entire enterprise deployments. The tool catches common configuration errors and provides simple instructions for remediation.

Tufts University Human-Robot Interaction
Laboratory
Research Assistant
June 2012 - August 2012

Collected qualitative data on the behavior of subjects interacting with artificial intelligence. The project aimed to study the effects of variations in a robot's levels of autonomy and emotional expressivity on its relationship with the human controller in a collaborative problem-solving session.

Projects

CollaboRead
<https://github.com/adempsey/CollaboRead>
<https://github.com/adempsey/CollaboRead-API>

Node.JS-based platform and iOS client developed in conjunction with Tufts University Medical Center to improve engagement in radiology lectures. The application creates an interactive classroom environment that allows medical schools to teach students through collaborative problem-solving and experiential learning.

ESCAPT: Easy Strategies for Computers to
Avoid the Public Turing Test
<https://github.com/adempsey/ESCAPT>
<https://adempsey.github.io/escapt.pdf>

Research paper describing vulnerabilities in CAPTCHA systems. Includes a Python script to decode challenges generated by the SnapHost CAPTCHA service.

Edgey
<https://adempsey.github.io/edgey>

Recursive ray-tracer that produces cartoon-like 3D renderings using cel shading and post-process edge detection. Written in C++.

Education

New York University
Tandon School of Engineering
Expected May 2019

Master of Science in Computer Science

Tufts University
School of Engineering
May 2015, Cum Laude

Bachelor of Science in Computer Science