Andrew Dempsey

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https://adempsey.github.io/

Employment

Box, Inc.
Senior Software Engineer, Mobile
Software Engineer, Mobile
Software Engineering Intern, Mobile
06/14 - 08/14; 08/15 - 08/17

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
01/14 - 05/15

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
05/13 - 08/13

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
06/12 - 08/12

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