Luke A. Sorenson

CONTACT INFORMATION

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SKILLS

Programming | C++, Python, Java, PHP, MATLAB, Verilog, C, C#, Objective-C, JS, HTML5/CSS
Other | Algorithms, Unix, Android Dev, SQL, Django, Flask, Logic Design, Circuit Design, LaTeX

EDUCATION

Boston University Class of 2016 | Boston, MA

Computer Engineering, Electrical Engineering (Double Major) **August 2012 – Present**

- GPA: **3.96**
- Dean's List (all semesters)

PROFESSIONAL EXPERIENCE

Google Inc. | Mountain View, CA

Software Engineering Intern for **Video Ads** team **May – August, 2015**

- Built color selection library and text/asset animations service for automatic video creation pipeline
- Worked with C++, Python, and Javascript to provide full-stack support to my team

Software Engineering Intern for **AdWords Quality** team **May – August, 2014**

- Created an algorithm to improve quality of suggested search queries given a web page
- Worked with the MapReduce programming model to manipulate large amounts of user data for delivering better ads for every user query

Downtyme, Inc. | Boston, MA

Founder and CEO, **Android** and **iOS** app Downtyme **December 2013 – Present**

- Championed product vision and team enthusiasm, coordinated development/design team
- Led programming effort for server infrastructure (**Django** rest framework) and client apps

Boston University Visual Image Processing Lab | Boston, MA

Research Intern, Gesture-Based Human Computer Authentication Project **June – August, 2013**

- Funded by the National Science Foundation and the University Research Opportunity Program
- Developed a **Windows** application using **C#** and XAML for recording and saving synchronized video from multiple Kinects
- Collected an extensive database of gestures, applied recognition algorithms, and analyzed the data

Boston University Department of Electrical and Computer Engineering | Boston, MA

Undergraduate Teaching Fellow for Software Engineering Course (C++) **September – December, 2014**
Teaching Assistant for Engineering Computation++ Course (Python) **September – December, 2013**

RECENT PROJECTS

(Project videos at www.lukesorenson.info and available source code at www.github.com/lasoren)

Mixr (iOS app and top seven hack at LA Hacks 2014)

- iPhone app designed to mix up your social circles with your friends while sitting in a group
- Showcases a new technology my team and I developed at the hackathon using iBeacon and compass information

SIM-V (Self-Driving Indoor Mapping Vehicle using MSP430)

- An autonomous vehicle, which navigates hallways taking pictures of its surroundings

file_reconciler (Java, Command Line Tool)

- Reconciles arbitrary files between computers over a network with maximal efficiency and minimal bandwidth
- Algorithm is fast and efficient especially for very large files with a small number of changes (100MB file with 5 changes reconciled in 25KB of data transferred)

HONORS AND AWARDS

Winner of MIT Enterprise Forum's Beantown Throwdown (startup pitch competition) 2014
Winner of Boston University **Imagineering Competition** with entry Downtyme 2014
Grant received from the Boston University Research Opportunity Program (UROP) 2013

COMMUNITY INVOLVEMENT

Lead Engineering Ambassador for the BU College of Engineering 2014-Present
BU College of Engineering **Dean's Host** 2013-Present
Founder and Secretary of MakeBU (club) 2013-Present