

Luke A. Sorenson

CONTACT INFORMATION	(508) 333-7612 lasoren@bu.edu, luke@downty.me	Natick, MA 01760 www.lukesorenson.info
SKILLS	Programming C++, Python, Java, PHP, C, C#, Objective-C, Node.js, HTML5/CSS, Verilog, MATLAB Other Algorithms, Unix, MySQL, Android Development, Logic Design, Circuit Design, LaTeX, Django	
EDUCATION	Boston University Class of 2016 Boston, MA <i>Computer Engineering, Electrical Engineering (Double Major)</i> August 2012 – Present <ul style="list-style-type: none">• GPA: 3.95• Dean's List (all semesters)	
PROFESSIONAL EXPERIENCE	Downtyme, Inc. Boston, MA <i>Founder and CEO, Android and iOS mobile app Downtyme</i> December 2013 – Present <ul style="list-style-type: none">• Championed product vision and team enthusiasm, coordinated development/design team• Led programming effort for server infrastructure (Django rest framework) and client apps Google Inc. Mountain View, CA <i>Software Engineering Intern for AdWords team</i> May – August, 2014 <ul style="list-style-type: none">• 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 Boston University Visual Image Processing Lab Boston, MA <i>Research Intern, Gesture-Based Human Computer Authentication Project</i> June – August, 2013 <ul style="list-style-type: none">• 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 <i>Undergraduate Teaching Fellow for Software Engineering Course (C++)</i> September 2014 – Present <i>Teaching Assistant for Engineering Computation++ Course (Python)</i> September – December, 2013 <ul style="list-style-type: none">• Aided students during lecture / lab and held office hours to provide extra help	
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) <ul style="list-style-type: none">• 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• To interact with the app, users simply swipe in the direction of someone else in the group SIM-V (Self-Driving Indoor Mapping Vehicle using MSP430) <ul style="list-style-type: none">• An autonomous vehicle, which navigates hallways taking pictures of its surroundings file_reconciler (Java, Command Line Tool) <ul style="list-style-type: none">• Reconciles arbitrary files between computers over the air 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 Boston University Imagineering Competition with entry Downtyme	2014
	Grant received from the Boston University Research Opportunity Program (UROP)	2013
	Winning team of Microsoft's Boston University Coding Challenge	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 Make_BU (club)	2013-Present