**Sihao (Ben) Lu**

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**EDUCATION**

**Johns Hopkins University**,Baltimore, Maryland **Expected Graduation Date May 2016**

Bachelor of Science in Computer Science(**GPA:** 3.59) **Honors:** Dean’s List

**Relevant Courses:** *Distributed Systems, Parallel Programming, Objective-oriented Programming, Database, Intro to Algorithms, Data Structures, Computer System Fundamentals, Digital System Fundamentals, Probability and Statistics, Discrete Mathematics, Calculus*.

**CODING EXPERIENCE**

**Apps on iOS App Store:** *Independent Developer* **2011 - Present**

* **JHU Politik** [(https://itunes.apple.com/us/app/jhu-politik/id584865810?mt=8)](https://itunes.apple.com/us/app/jhu-politik/id584865810?mt=8)
  + Developed a newsstand app for JHUPolitik magazine, a weekly opinion-based magazine published by JHUPolitik club. Can auto-download and notify user when new magazine comes. Featuring async networking and UICollectionView.
* **Metronome Classic** [(https://itunes.apple.com/us/app/metronome-classic/id525316600?mt=8)](https://itunes.apple.com/us/app/metronome-classic/id525316600?mt=8)
  + Created a realistic classical-looking metronome app with customizable tempo and time signature, which can also change tempo according to your tap. Currently has over 50,000 downloads.
  + Programmed all codes utilizing Core Graphics and some Core Animations. Designed all artworks.

**Hackathons & Competitions**

* **Hophacks 2013 & 2014**, Johns Hopkins University, MD**Sept. 2013, Sept. 2014**
  + **2013**: Awarded first place for app DropMe, which allows users to drop anything onto a shareable, personalized map.
  + **2014**: Best Facebook API usage for Snapeep, in which players snap photos secretly their FB friends to “assassinate” them.
* **Qualcomm Tricorder XPrize** (<http://tricorder.xprize.org>, <http://www.aezonhealth.com>) **Jan. 2014 - Present**
  + Making iOS client and bringing the team into finalist of XPrize, a $10 million global competition to stimulate innovation and integration of precision diagnostic technologies, helping consumers make reliable health diagnoses on mobile devices.
* **Microsoft Coding Challenge**, Johns Hopkins University, MD **Sept. 2013**
  + Won first place by solving 4 out of 6 challenging problems.

**Open Source Projects on GitHub** [(https://github.com/DJBen)](https://github.com/DJBen) **2012 - Present**

* **2048-AI-iOS**: Created an artificial intelligence for solving the famous 2048 puzzle game with over 95% success rate on iOS.
* **Photo-with-Secret**:Crafted an app that can embed a secret message into a photo without making any eye-distinguishable changes.

**LEADERSHIP & TECHNICAL EXPERIENCE**

**JHU Politik Club**, Johns Hopkins University, MD: *Webmaster* **Oct. 2012 - Present**

* Manages electronic version of magazine online and in the iOS app and back-end of the website.

**First LEGO League Robotic European Championship**, Istanbul, Turkey:*Team Leader* **June 2010**

* Served as a representing team of China, received Team Spirit Award and placed in top 10 among 50 teams from different countries.
* Awarded first place in China National First LEGO League.
* Designed model of NXT robot capable of performing complex tasks on a designated field, programmed using LEGO MindStorm.

**WORK & RESEARCH EXPERIENCE**

**Microsoft**, Redmond: *Software Engineer Intern* **Jun 2014 – Aug 2014**

* Design, build and test a client simulator module for the Intune team, which reduces the overhead of allocating existing clients during automated testing and simplifies the product test cycle.

**Johns Hopkins University,** Baltimore: *Intro to Java* *Teaching Assistant*  **Sept 2014 – Present**

* Hold 4 hr/week office hours, grade assignments and instruct programming lab sessions to assist students understand the material.

**Johns Hopkins Housing Office**, Baltimore: *IT Assistant*  **Sept 2013 – Apr 2014**

* Builds an iOS app with backend database server that facilitates RA to record room inspection and security check status.

**TECHNICAL SKILLS & LANGUAGE SKILLS**

* Languages: Objective-C, Swift, C#, Java, C, C++, Ruby, Javascript, Python.
* Platforms, Clouds & IDEs: iOS, Windows 8 Phone, Parse, Apple CloudKit, Azure. Xcode and Visual Studio 2013.
* Native Mandarin Chinese speaker. Basic Italian.