**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)

**Relevant Courses:** *Parallel Programming, Objective-oriented Programming, Database, Data Structures, Computer System Fundamentals, Intermediate Programming, 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.
  + Programmed all codes, featuring UICollectionView and Async Networking.
* 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 extensive animations. Designed all artworks.

**Hackathons & Competitions**

* **Hophacks 2013**, Johns Hopkins University, MD: *Team Member* **Sept. 2013**
  + Awarded grand prize for app DropMe, which allows users to drop photos and other files onto a shareable, personalized map.
* **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 Housing Office**, Baltimore: *IT Assistant*  **Sept 2013 – Feb 2014**

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

**Life Science Lab in Nanjing University**, Nanjing, China:*Research Assistant* **May 2011 – Sept 2011**

* Conducted research on MicroRNA-150 as a marker of diabetes

**TECHNICAL SKILLS**

* Languages: Objective-C, Swift, C#, Java, C, Ruby, Python, SQL, C++ and LaTeX.
* Platforms and Clouds: iOS, Windows 8.1, Parse, Azure, AWS and Apple CloudKit.
* IDEs: Xcode, Visual Studio 2013

**LANGUAGE SKILLS**

* Native Mandarin Chinese speaker. Basic Italian.