Brian Z. Shi
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Education

University of Pennsylvania, School of Engineering and Applied Science in Philadelphia, PA   Class of 2017
- Pursuing B.S.E., M.S.E. in Computer Science
  - **Relevant coursework**: *Database and Information Systems* (**SQL**), Scalable and Cloud Computing (**Java**, **JavaScript**), Artificial Intelligence (**Python**), Computer Systems (**C**, **Assembly**), Data Structures and Algorithms (**Java**), Market and Social Systems on the Internet (**Java**), Engineering Probability, Calculus III. (*Italicized* = graduate level)

Mt. Lebanon High School in Pittsburgh, PA   Class of 2013

Work Experience

University of Pennsylvania in Philadelphia, PA   August 2014 - Present
Teaching Assistant - Java
- TA for CIS 121 ("Data Structures and Algorithms"), a third semester course in Penn's Computer Science sequence
- Teach recitations, hold office hours, grade assignments and exams, revise codebase, and lead review sessions

University of Pittsburgh Medical School in Pittsburgh, PA   Summer 2014
Software Developer - JavaScript, PHP, SQL, HTML/CSS
- Developed pcnstesting.com, a web app for making and administering exams to Pitt medical students (see project)

BudgetSimple, Inc. in Pittsburgh, PA   Summer 2014
Software Development Intern - JavaScript, PHP
- Summer internship at BudgetSimple, Inc., a web-based company specializing in budgeting apps for consumers
- Implemented a new startup wizard using Backbone.js, as well as a corresponding backend following RESTful API
- Improved the web application's navigation, alert system, and user interface
- Rolled out software updates to BudgetSimple's 130,000+ activate users

PennCycle at University of Pennsylvania   February 2014 - Present
Developer and Webmaster - JavaScript, Python, HTML/CSS
- Developer and webmaster for PennCycle, a student-run on-campus bike share company
- Maintain PennCycle.org and its backend, which oversees the maintenance and distribution of our 50+ bike fleet
- Currently working to add new features, such as real-time bike tracking, site redesign, and bike gallery

Rangos Research Center at University of Pittsburgh   Summer 2013
Student Research Intern
- Conducted DOD-funded molecular biology research under the supervision of Dr. Ira Bergman

Best Buy of South Hills, PA   August 2012 – January 2013
Mobile Sales Consultant

Independent Projects

PCNS Testing - *solo contract project - Backbone.js, PHP, MySQL*   Summer 2014
- PCNS Testing is a web application that allows for creating and editing comprehensive, situation-based tests to be taken by University of Pittsburgh Medical School Students. The app also has thorough score-reporting features.
- In summer 2014, I built from scratch its interactive user testing application, Backbone.js admin interface, PHP backend following REST API, and PostgreSQL database.
- Deployed to pcnstesting.com, code at github.com/shib340/PCNS_Testing, currently being beta-tested at Pitt

Funsubscribe - *collaborated with Razzi Abuissa, Zack Elliott - Backbone.js, Node.js, MongoDB*   September 2014
- Funsubscribe is an online subscription manager, which has features such as automatic cancellation of unused services, live subscription tracking, and subscription statistics. Made in PennApps 2014 Fall, deployed to funsubscribe.com.

Personal Website - *solo project - HTML/CSS, JavaScript*   March 2014
- Personal webpage, started during my 2014 spring break. Currently being reconstructed. Deployed to brian-shi.com.

Skills

Languages
- *Advanced:* **JavaScript**, **Java** | *Proficient:* Python, PHP, SQL, HTML/CSS | *Beginner:* Shell Script, OCaml, C

Libraries/Framworks
- jQuery, Backbone.js, Node.js, Django, Slim, Hadoop, Bootstrap

Software
- Vim, Git, Apache, Heroku, AWS, Eclipse, Unix