Brian Z. Shi

3910 Irving Street
Philadelphia, PA 19104
(412) 728-8303

brishi@seas.upenn.edu
linkedin.com/in/brianzshi
github.com/shib340
brian-shi.com

Education

University of Pennsylvania, School of Engineering and Applied Science in Philadelphia, PA   Class of 2017
- Pursuing B.S.E. in **Computer Science**
    - **Relevant coursework**: Database and Information Systems (c), Scalable and Cloud Computing (c), Artificial Intelligence (c), Computer Systems (c), Python Programming (c), Data Structures and Algorithms, Market and Social Systems on the Internet, Engineering Probability, Calculus III (c = currently taking)

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

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
- Also improved the web application's navigation, alert system, and user interface
- Rolled out changes to BudgetSimple's 130,000 activate users

PennCycle at University of Pennsylvania   February 2014 - Present
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

Projects

PCNS Testing - *solo contract project* - Backbone.js, PHP, PostgreSQL   Summer 2014
- PCNS Testing is a web app that allows for creating and editing comprehensive, situation-based tests to University of Pittsburgh Medical School Students, as well as viewing the performances. The app administers those tests as well.
- I built from scratch the interactive user testing application, an admin Backbone.js interface, a RESTful backend, and PostgresSQL database. Deployed to pcnstesting.com, code at github.com/shib340/PCNS_Testing.
- Currently being beta-tested at the University of Pittsburgh

Penn Course Mall - *collaborated with Zack Elliott* - Backbone.js, Node.js   August 2014 - Present
- Penn Course Mall is a web app that will assist Penn students in selecting courses using various filters and ranks.
- Intended to be an upgrade over PennCourseReview.com.

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

Skills

Languages
- *Advanced* in **JavaScript** | *Proficient* in Java, PHP, SQL, HTML/CSS | *Beginner* in Python, OCaml

Libraries
- jQuery, Backbone.js, Node.js, Django, Bootstrap

Software
- Vim, Git, Apache, Heroku, AWS, Eclipse, Mac, Linux, and Windows