Di Yang (Steven) Shi

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Education

Brown University | Concentration GPA: 4.0   **Providence, RI | September 2014 – Expected May 2018**

- Intended Concentration: Bachelor of Science in Computer Science

  - Advanced Intro to Computer Science
  - Software Engineering
  - Systems Programming
  - Design and Analysis of Algorithms
  - Probability and Computing
  - Linear Algebra
  - Intro to Number Theory

EdX Platform - MITx   **August 2013 – May 2014**

- 6.00.1x Introduction to Computer Science and Programming, 6.00.2x Introduction to Computational Thinking and Data Science, 6.002x Circuits and Electronics

Projects - https://www.stevenshi.me/projects/

Pair Project "Maps" || https://www.stevenshi.me/projects/maps/   **March 2015 – April 2015**

- Implemented in its entirety the multithreaded backend for an interactive map interface with shortest path searching in simulated real-time traffic by writing and assembling the following features:
  - A* search on large data (database of Rhode Island graph) through efficient caching, querying, and using optimal data structures
  - Kd-tree construction from graph to search for nearest neighbor to a selected point on the map
  - Trie backed suggestions engine, with smart ranking, supporting whitespace edit, prefix matching, and levenshtein edit distances
- Please contact me for this private repo

Four Person Group Project "Brewer" || https://www.stevenshi.me/projects/brewer/   **April 2015 – May 2015**

- Scratch inspired visual programming language built as an educational tool for teaching basic Java
  - Helped implement program parsing and type checking
  - Created database communications for program storage and loading
  - Extensively tested network communications and program evaluations through structured test suites

Experience

Chegg Computer Science Tutor || https://instaedu.com/tutors/online-tutors/Steven-S-435637   **March 2015 – August 2015**

- Enjoying helping others learn computer science and occasionally general mathematics

BuiltLean – Marketing and Web Analytics Intern   **New York, NY | May 2015 – August 2015**

- Brand development, optimizing conversion rates through web analytics, forging new products, and testing the merits of paid traffic

Grove City Borough - Appointed Junior Council Person   **Grove City, PA | February 2013 – June 2014**

- Co-organized the local Halloween parade and oversaw its fulfillment

Dairy Queen – Blizzard Wizard   **Grove City, PA | April 2013 – June 2014**

- Curling cones and creating the sweetest of desserts

Distinctions

Brown University – Catalyst 2014   **Providence, RI | August 2014**

- 1 of 15 incoming freshman selected for a rigorous pre-orientation STEM mentoring program aiming to foster collaboration

Center for Student Opportunity – I'm First Scholar || www.imfirst.org/author/steven/   **Providence, RI | June 2014 – present**

- 1 of 10 selected first generation student ambassadors and bloggers for I'm First organization

Skills & Interests

Programming: Java, C, Python, JavaScript, jQuery, HTML, CSS, Shell, JSON, MatLab, SQL, Apache, Linux, Windows, MacOS

Experience: Object-Oriented, Functional, Multithreading and Synchronization, Memory and Search, Markov Modeling, Server-Client Communication, Large Data Computing, Automated Testing, Probability Theory, LAMP Server

Languages: Mandarin (working proficiency), Fuzhou Dialect (fluent)

Interests: playing music (piano, acoustic guitar), journaling, soccer player for fourteen years, tennis, RTS (Real Time Strategy) games, archery, martial arts, anime and Eastern Asian culture