

JASON SHUM

(401) · 499 · 8019 ◇ jason_shum@brown.edu
69 Brown St, Providence, RI 02912

EDUCATION

B.Sc Computer Science, Brown University

Overall GPA: 3.7/Major GPA: 3.75

Expected: May 2014

- *Spring 2013*: Machine Learning, Algorithms, Recent Applications of Probability and Statistics
- *Computational Probability and Statistics* - random walks, Gibbs random fields, principle component analysis
- *Programming Languages* - type systems, continuations, garbage collection, scoping
- *Software Engineering, Introduction to Computational Biology*

EXPERIENCE

Teaching Assistant for Probabilistic Models in CS

Jan 2013 - May 2013

Teaching Assistant for Introduction to Computer Systems

August 2012 - Present

- Led discussions sessions with students on computer systems topics
- Wrote and updated course projects

Research Assistant at Ben Raphael Computational Biology Group

July 2012 - August 2012

Brown University

- Parsed and converted biological database entries to a protein interaction graph of 15k genes
- Helped develop a graphical model to identify cancer pathways algorithmically

Associate at Ernst & Young - Mergers and Acquisitions Department

May 2012 - June 2012

Shanghai, China

- Wrote report and created salary expenditure model of biomedical trading firm to advise client on potential acquisition
- Analyzed distributor inventory data and made recommendations to improve supply chain management

Backend Developer/Product Manager at Happy Elements

June 2011 - August 2011

Beijing, China

- Designed and developed an internal project management web application at a 300-person startup using PHP MVC framework. Improved project completion time by 20%.
- Conducted user testing and deployment to fifty users

PROGRAMMING PROJECTS

Python Interpreter in Racket

August 2012 - Present

- Designed a core language and implemented its interpreter in Racket
- Wrote a program to convert Python syntax into the core language for interpretation

Whisk

January 2012 - May 2012

- Collaborated with three developers to solve the problem of intelligent recipe parsing
- Designed and built desktop application that generates shopping lists and finds recipes which match existing ingredients
- Worked extensively with Java, SQL, and Python web-crawler

TECHNICAL STRENGTHS/PERSONAL

Proficient

Python, Java, C

Familiar

Matlab, Racket, Perl, PHP

Tools

L^AT_EX, Vim, Git

Language

Mandarin (fluent), Cantonese (fluent)

Interests

Classical music enthusiast (tuba, trombone, euphonium, cello player), soccer player