Josh Chen

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EDUCATION

Princeton University, Princeton, NJ   June 2014
Major: Bachelor of Science in Engineering, Computer Science
Intended certificates: Applied and Compu. Math, ML and Statistics, Engineering Biology
Coursework: Theoretical Machine Learning, Kernel Methods and ML, Artificial Intelligence,
  Computer Networks, Operating Systems, Theory and Algorithms, Stochastic Calculus,
  High-Tech Entrepreneurship, 4-course Integrated Science, Constitutional Interpretation
GPA: 3.80/4.0

EXPERIENCE

D. E. Shaw & Co., New York City, NY   May 2013 – Aug 2013
Quantitative Strategies and Software Development
- Built dependency tracing and resource usage prediction into the cache updates of a financial indicator caching system

Amazon.com, Seattle, WA   June 2012 – Aug 2012
Software Development Engineer Intern, CloudDrive
- Built two prototypes for the automatic thumbnail cropping of user-uploaded CloudDrive photos, researching and developing methods for the detection and selection of image regions salient to the average user

Princeton Undergraduate Student Government, Princeton, NJ   Feb 2012 – Feb 2013
IT Chair
- Led a team of 10 students to conceptualize, design, develop, maintain, and scale Web apps for improving undergraduate campus life (tigerapps.org, github.com/PrincetonUSG)
- Responsible for developing the technological vision of, and for presenting technical concepts to, the undergraduate student government

BloomReach, Mountain View, CA   June 2011 – Aug 2011
Technical Intern
- Developed internal tools (monitoring, analytics, database, Web data retrieval, and product testing tools) that continue to be used by technical and non-technical staff
- Configured enterprise clients for product launches, working with AWS tools and gaining exposure to product launches

UCSF Biomedical Mass Spectrometry Facility, San Francisco, CA   June 2009 – Aug 2009
Research Intern
- Developed pattern-recognition algorithm to automate a previously manual process of deconvoluting low-signal, raw mass-charge data of phosphorylated peptides into mass data
- Recognized as semifinalist in the national 2009 Siemens Science Competition

SKILLS

Proficient: Python, Java, C, MATLAB, Django, HTML/CSS
Worked with: Javascript, SQL, Google AppEngine, R, LaTeX, IA-32 assembly, MS Office
Languages: Chinese (fluent), Spanish (basic)

HONORS

USA Math Olympiad qualifier, 2010
Semifinalist, Siemens Competition in Math, Science and Technology, 2009
National Merit Scholar and SAT score of 2400, 2010
Nominated for the Princeton University Quin Morton '36 Writing Seminar Essay Prize, 2011

OTHER ACTIVITIES

Major CS Projects: Content-based music genre classification; Automatic thumbnail cropping of digital images; Lead developer of cal, pom, and www subdomains of tigerapps.org
Service: Education/Entrepreneurship Breakout trip (Mar 13); election canvasser in Florida (Oct 12); Adult ESL Teacher with El Centro Trenton (2011-12); Sustainable Engineering and Development Scholar (2010-11); Development Design Initiative (2011-)
Other: Princeton Club Cycling; Princeton Club Volleyball; casual musician