SOPHIE CHANG

http://sophie-chang.com

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EDUCATION

Harvard University
Bachelor of Arts, Computer Science
Secondary Field, Mathematical Sciences

Expected May 2013
Cambridge, Massachusetts

RELEVANT COURSEWORK

- Multivariable Calculus
- Introduction to Real Analysis
- Advanced Scientific Computing: Numerical Methods
- Introduction to C Programming
- Systems Programming and Machine Organization
- Big Data Algorithms
- Machine Learning
- Computing Foundations for Computational Science
- Design of Usable Interactive Systems
- Linear Algebra and Differential Equations
- Graph Theory and Combinatorics
- Advanced Scientific Computing: Stochastic Optimization Methods
- Software Design and Abstraction
- Computational Theory
- Computer Graphics
- Rendering and Image Processing in Computer Graphics
- Geometric Modeling in Computer Graphics

WORK EXPERIENCE

Google
Software Engineer

Starting Jul. 2013
New York, New York

Harvard School of Engineering and Applied Sciences
Teaching Fellow

Sep. 2010 – present
Cambridge, Massachusetts

- Instructed students in computer science courses covering basic C and Java programming and mobile operating systems and applications (iOS, Android, and Windows Phone)
- Synthesized complex course material and presented weekly supplemental lessons
- Graded quizzes and problem sets for classes of 500+ students

Google
Software Engineering Intern

May 2012 – Aug. 2012
London, United Kingdom

- Interned on the Android Voice Search team
- Integrated Android Voice Search into devices, promoting search functionality
- Optimized speech recognition service to improve accuracy of word identification

Harvard Student Agencies – Rover
Senior Developer – Android

Oct. 2011 – May 2012
Cambridge, Massachusetts

- Led Android team as main developer for all Android projects
- Designed full-scale projects and communication infrastructure
- Supervised Android team members and increased efficiency by 25%

Mobile Interactive Group
Software Development Intern

May 2011 - Aug. 2011
London, United Kingdom

- Collaborated with team to implement Android apps for Vodafone (myVodafone), O2 (myO2), and Moneysupermarket.com
- Implemented home screen widgets for the Sony PlayStation Europe Android app
- Prepared research briefs on new mobile technologies and Android developments

SKILLS

Computer: Experience with Java (and Android), C/C++, Python (and Django), Objective-C (and iOS), PHP, MySQL, HTML/CSS, JavaScript (and jQuery)

Language: Native Fluency in Mandarin Chinese and English