

Jonathan Ting
jonathan.ting@berkeley.edu
2700 Hearst Ave., Berkeley, CA 94720 | Building 1A, Room 26C | (805) 868-1586

Education

University of California, Berkeley

B.S. Electrical Engineering and Computer Science

expected June 2016

Skills

Programming/Markup

- Code mostly in: C, C++, Python
- Some experience: HTML, CSS, JavaScript, Java, LaTeX, MATLAB, MIPS, Ruby on Rails
- Familiarity with: MATLAB, Objective-C, Scheme, x86

Software

- AutoCAD: created 2D engineering drawings in first-angle projection
- Adobe Photoshop, Illustrator, & InDesign: created a presentation of a house with complex entourage
- Logisim: Used to simulate digital logic circuits
- Multisim: Used for circuit design and analysis
- Rhinoceros: Created a 3D model of a case study house

Activities

Academic

- PREP: Pre-engineering program, intensive preparation for calculus and physics Fall 2012
- Lab assistant for CS 61A, UCB's introductory computer science course Summer 2014
- Designing a web interface for research and development group Gamescrafters Spring 2015

Personal

- Personal website - jting.me | Mirror if down: vigenere36.bitbucket.org
- Enjoy programming challenges from various websites, including Project Euler (number theory)
- Various personal projects from hackathons and free time (details in website)
- 5+ years experience in martial arts, including Karate, Taekwondo, and Wushu
- 4+ years experience in piano, recently continued and practice in free time

Related Coursework

University of California, Berkeley

- The Structure and Interpretation of Computer Programs Fall 2012
- Structure and Interpretation of Systems and Signals Fall 2013
- Data Structures Spring 2013
 - Implemented an AI for a game using alpha-beta pruning
- Machine Structures Spring 2014
 - Implemented MapReduce on Amazon EC2 servers
 - Parallelized using a variety of optimization methods
 - Designed a 2-stage pipelined processor in Logisim
- Discrete Mathematics and Probability Theory Spring 2014
- Introduction to Microelectronic Circuits Spring 2014
 - Built an EEG which measures electrical signals from the brain
- Computer Security Fall 2014
 - Implemented rainbow tables to crack AES hashes
 - Implemented a simplified version of the SSL handshake
- Computer Graphics Fall 2014
 - Created a ray tracer using C++, optimized using multi-threading and SSE intrinsics
- Efficient Algorithms and Intractable Problems Fall 2014
- Programming Languages and Compilers Spring 2015
- Artificial Intelligence Spring 2015
- Software Engineering Spring 2015