**Charles Ding**  
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**Education:**

**University of California, Berkeley – Expected 2017**

B.S. in Electrical Engineering and Computer Science (EECS) – GPA: 3.73 Major GPA: 3.80

**Atholton High School, Columbia, MD – Class of 2013**

Unweighted GPA: 4.00 Rank 1/376; Weighted GPA: 4.67 Rank 12/376

**Relevant Coursework:**

* In Progress: Machine Structures (taught in C), Discrete Mathematics and Probability Theory, Structure and Interpretation of Systems and Signals
* Completed: Data Structures (taught in Java), The Structure and Design of Computer Programs (taught in Python), Code the Change DeCal (web design), Electrical Physics for Scientists and Engineers

**Work Experience:**

**University of California – Berkeley Residence Halls, Math Tutor** August 2014 – Present

* Assisted students with problem sets and related coursework and discussed approaches to solving them
* Worked with both individuals and small groups and encouraged group study

**Sandia National Laboratories, Undergraduate Summer Technical Intern** May 2014 – August 2014

* Created two Java projects for SUMMIT (Standard Unified Modeling, Mapping, and Integration Toolkit) that calculated the human population inside a polygon on the Earth’s surface.
* Wrote proof-of-concept code that allows SUMMIT to add, edit, and delete geographical datasets on GeoServer.
* Implemented a proxy servlet that allows the SUMMIT Server to authenticate HTTP requests to GeoServer.

**National Oceanic and Atmospheric Administration Air Resources Laboratory, Intern** June 2013 – August 2013

* Examined the trend in NOx and CO air pollution from 2005-2012 over the largest ten metropolitan areas in the US.
* Assisted in the design a webpage that used the Google Earth API to display air quality data to users.

**National Oceanic and Atmospheric Administration Air Resources Laboratory, Intern** June 2012 – August 2012

* Compared two air quality models in predicting ozone and PM2.5 air pollution in the United States.
* Received Youngest Intern Ever Award at the Air Resources Laboratory.

**Publications:**

* Pan L., D. Tong, P. Lee, H. Kim, T. Chai and **C. Ding**, 2012, How does the concentration of surface ozone change in CONUS due to a new paradigm for emission upgrade for the national forecasting system?, 2012 CMAS conference, Chapel Hill, NC (poster).

**Skills:**

* Programming: **Java, Python**; HTML, CSS, Javascript, SQL, Fortran, Cshell, AWK
* Operating Systems: Windows, Linux, Unix
* Tools: Git, Subversion, Eclipse, JCreator, Sublime Text Editor, GeoServer, PostgreSQL

**Academic Honors:**

* Alumni Leadership Award at Berkeley May 2013 – May 2014
* Masonic Charities of Maryland Scholarship May 2013 – May 2014

**Extracurriculars:**

**Volunteer Programmer for Code the Change Hollaback Project Team** August 2013 – December 2013

* worked with peers to design a comic book webpage for Hollaback, a nonprofit organization that campaigns against street bullying and harassment