

# Andrea Liu

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## Education:

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### University of California, Berkeley – *College of Letters and Science*

Computer Science, B.A. degree – Junior standing by academic units

September 2014 – Expected May, 2018

Current GPA: 3.91

Relevant coursework: Structure and Interpretation of Computer Programs (CS 61A), Data Structures (CS 61B), Web Design Directed Group Study (CS 98), Calculus I (MATH 1A), Calculus II (MATH 1B), Intro to Statistics (STAT 20)

Current coursework (Fall 2015): Linear Algebra and Differential Equations (MATH 54), Machine Structures (CS 61C)

## Activities and Experience:

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### UC Berkeley Lab Assistant – (CS61A) Structure and Interpretation of Computer Programs January 2015 – Present

- Dedicated at least three hours per week to assisting students in CS 61A with homework, projects, exam preparation, and lab assignments
- Solidified concepts that were previously learned in the course by both independently and collaboratively reviewing course material and brainstorming ways to teach current students

### International Baccalaureate Program

Full Diploma Recipient

August 2013 – June 2014

- Undertook internationally-recognized academic program in high school, consisting of a six subject group curriculum (each with an IB test), a Theory of Knowledge class, and 4,000+ word extended essay
- Completed 150 hours of IB-approved “creativity, activity, and service” (CAS) volunteer activities

### Future Business Leaders of America (FBLA):

Member and Competition Participant

August 2013 – June 2014

- Studied for club-sponsored testing competitions and participated in fundraising events
- Competition awards: 1<sup>st</sup> place in Desktop Publishing (CA State, 2013), 2<sup>nd</sup> place in Health Care Administration (Gold Coast Section, 2014), 3<sup>rd</sup> place in Accounting II (Gold Coast Section, 2014)

## Notable Projects:

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**Gitlet (CS 61B, Java):** Simple version-control system, inspired by git; involved creating and implementing a storage design plan for files, choosing appropriate data structures, performing comprehensive JUnit testing, and fulfilling efficiency requirements April 2015

**NGordNet (CS 61B, Java):** Program with a user interface that analyzes/graphs word trends; involved object-oriented programming, writing a package almost from scratch, and creating custom data structures by combining elements of pre-existing ones March 2015

**Scheme Interpreter (CS61A, Python):** Working interpreter for a subset of the Scheme language; involved parsing, interpreting, and evaluating user input November 2014

**Personal Website (Personal, CSS/HTML/JavaScript):** Summer project expanding upon web-design knowledge learned in CS 98; contains biographic information, contact links, project descriptions, and resume access; combines HTML framework, CSS design, and jQuery event listeners/plugin May 2015

## Skills:

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**Programs:** Microsoft Word (proficient), Microsoft PowerPoint (proficient), Microsoft Excel (familiar), Microsoft Visual Studio (familiar), GitHub (familiar), Adobe Photoshop CS6 (strongly familiar)

**Programming Languages:** Java (proficient), Python (proficient), HTML (familiar), CSS (familiar), JavaScript (familiar), Scheme (familiar), C# (exposed to), XML (exposed to), SQL (exposed to)