# Emilio Aurea

*Email:* emilioaurea@berkeley.edu   *Website:* emilioaurea.github.io
*LinkedIn:* linkedin.com/in/emilioaurea   *Github:* github.com/emilioaurea

## Education

| **University of California, Berkeley** | **Expected May 2018** |
|---|---|
| *Computer Science, B.A.* | *Cumulative GPA: 3.64* |

- 2014 Diversity Scholarship, Berkeley Student Foundation
- Coursework: Structure and Interpretation of Computer Programs (61A), Data Structures and Algorithms (61B), Multivariable Calculus (53), Linear Algebra and Differential Equations (54)
- Spring 2016: Machine Structures (61C), Discrete Math and Probability Theory (70)

## Projects

***Gitlet***
- Implemented a version-control system based off of Git's implementation.
- Worked with a partner to build the system from scratch.
- Achieved $O(1)$ runtime (with respect to any significant measure) for multiple commands using file system.

***Lines of Action***
- Implemented a terminal-based game and designed an AI implemented with a tree-pruning algorithm.

***Philspel***
- Implemented a basic dictionary-based spell checker in C.
- Can handle very large input with no memory leaks.

***Solitaire***
- Implemented a GUI system using the MVC model.

***Small Database System***
- Built a small database system that parses SQL from terminal and queries tables.

***Personal Website***
- Currently self-teaching HTML, CSS, and Javascript to build website to showcase projects.

## Experience

| ***Math/Stats Tutor*** | Sept. 2015 – Nov. 2015 |
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- Tutor 30+ students per week in a variety of foundational math and stats courses in an fast-paced environment.
- Topics ranged from Calculus, Multivariable Calculus, Statistics, Probability, Linear Algebra, and Differential Equations

| ***CS61A Lab Assistant/Tutor*** | Sept. 2015 – Dec. 2015 |
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- Tutored 3 students one-on-one every week on concepts of computer programming including but not limited to: recursion, object-oriented programming, data abstraction, tree data structures and linked-list data structures.
- Assisted students during lab section of CS61A and helped with topics mentioned above.

| ***TAP Campus Ambassador*** | March 2016 - Present |
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- Ambassador for CODE2040 organization. Organizer for Technical Applicant Prep (TAP) workshops.

## Skills

***Languages:*** Java, Python, C, SQL
***Web:*** HTML, CSS, Javascript
***Software:*** Git