Emilio Aurea

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Education

University of California, Berkeley	**Expected May 2018**
Computer Science, B.A.	*Cumulative GPA: **3.53***

- 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), Machine Structures (61C), Discrete Math and Probability Theory (70)
- ***Summer 2016***: Introduction to Artificial Intelligence (188)

Highlights of Qualifications

- Proficient in test-driven development of large Java programs as seen in class projects utilizing Git.
- Experienced in developing medium-scale Python and C projects.
- Knowledgeable and effective communicator/educator as demonstrated by teaching experience
- Familiar with JUnit, HTML5, CSS3, Bootstrap, SQL, IPython, NumPy, OpenMP
- Bilingual English and Spanish, written and spoken fluency

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 certain measures) for multiple commands using file system.

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

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
- Used HTML5, CSS3, and Bootstrap to build a mobile-responsive website to showcase projects.

Experience

Math/Stats Tutor	Sept. 2015 – Nov. 2015, June 2016 - Present

- Tutor 30+ students/week in foundational math and stats courses in a fast-paced environment.
- Topics ranged from Single-Multivariable Calculus, Statistics, Probability, Linear Algebra, and Differential Equations

CS61A Lab Assistant/Tutor	Sept. 2015 – Dec. 2015

- 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

- Ambassador for CODE2040 organization. Share CS resources with students of color.