Emilio Aurea

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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
- 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
- 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. Organizer for Technical Applicant Prep (TAP) workshops.

Skills

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