

RYAN LEE

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EDUCATION

University of California, Berkeley

GRADUATING 2018

Majors: Computer Science and Cognitive Science

Alameda High School

GRADUATED 2014

Class rank: 1 out of 431

GPA: 4.85/5.0 (weighted), 4.0/4.0 (unweighted)

COURSEWORKS (COMPLETED / In Progress)

(CS 61a) Structure & Interpretation of Computer Programs

(CS 61b) Data Structures

(CS 198) iOS App Development

(CS 70) Discrete Math & Probability Theory

(Math 54) Linear Algebra & Differential Equations

(CS 98) Web Design

(CS 61c) Machine Structures

SKILLS

LANGUAGES

Computer Languages

Fluent: Java, Python, Objective C, HTML/CSS

Proficient: Javascript, Scheme, SQL, \LaTeX

Spoken Languages

Cantonese, Spanish, English

PROJECTS

SPRING 2013 (PERSONAL) Jellyfishing Game

- Built a catching game with the option for endless play or levels
- Self taught basic python and pygame to create this keyboard based game
- Player uses the arrow keys to move a net around the screen and catch floating jellyfish
- As levels progress, jellyfish move faster, and jellyfish amount and time limit both increase

FALL 2015 (ACADEMIC) Assembler and CPU

- Wrote an assembler to translate MIPS instructions to machine code
- Formed linker to process object files and generate an executable file in the end
- Utilized Logisim to create the register files and ALU for the computer processor unit
- Laid down the datapath, control, and pipeline to finish the 32-bit two-cycle CPU

SPRING 2015 (ACADEMIC) Gitlet

- Coded together own version control system that mimics Git
- Devised an immutable commit tree to hold on to individual commit nodes
- Supports "init," "add," "commit," "remove," "log," "find," "status," "checkout," and "branch"

FALL 2014 (ACADEMIC) Scheme Interpreter

- Assembled an interpreter to read in a subset of the Scheme functional programming language
- Written in Python, parses through lines of Scheme expressions and evaluates them
- Returns the results of these expressions in the end

AWARDS AND HONORS

2014 Valedictorian, Alameda High School

2013 NorCal DECA Exam Winner, DECA Club

2013 Scholar Athlete, Alameda High School