Henry CHANG

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in: henryjchang   ○: jiwonchang

EDUCATION

DEC 2017	Bachelor of Arts in APPLIED MATHEMATICS, **UC Berkeley**
JULY 2015	Curriculum in STATISTICAL SCIENCE, **UC Santa Barbara** Member, UCSB LETTERS & SCIENCE HONORS PROGRAM DEAN'S HONORS (FALL 2013 & SPRING 2014)

COURSES & PROJECTS

MAY-JUN 2018 | **INFINITUM - SHOOT'EM UP GAME**
Made with Pygame in Python. Created enemies, enemy-pathing, tile-based map design, missile types, bonuses. Implemented dialogue, basic story, stages, Galaga-like enemy waves, homing missiles, currency, and shopping. Finished the project as a Minimum Viable Product.

JUN-AUG 2016 | **THE ENIGMA MACHINE**
Computer Science 61B - Data Structures
Created the Enigma machine from WWII with Java using OOP. Designed a diagram of Enigma's inner workings from the machine's description. Implemented code based on the diagram, and created a machine for decrypting and encrypting messages.

AUG-DEC 2016 | **HORSE RACE**
Computer Science 170 - Efficient Algorithms and Intractable Problems
Utilized a combination of dynamic programming, greedy, and DFS algorithms to create the best horse teams, which competed with those of the whole class.

JUL-SEPT 2017 | **iPHONE GAME PROJECT - SPACE SHOOTER**
Created enemies, physics mechanics, explosions, missile types, bonuses. Searched for libraries and commands online to learn more about Swift and implement envisioned features. Analyzed and optimized the code so as to remove any runtime lag and to increase stylistic beauty.

WORK & EXTRACURRICULAR EXPERIENCE

JUL-AUG 2014 | **Canvasser at ENVIRONMENT CALIFORNIA / CALPIRG**
Ventured door to door in several cities to spread environmental awareness and to raise funds to ban fracking. Organized a team and coordinated with fellow canvassers to efficiently reach daily objectives.

SEPT 2013 - JUN 2015 | **Club Leader & Organizer at ENJOYERS OF CHRIST CLUB**
Coordinated with club staff and other club leaders to host meetings and conferences. Delivered motivational speeches during gatherings of campus-wide gatherings of all Christian clubs.

SKILLS

Technical:	Python, Java. Familiar with: Swift, MATLAB, SQL. Previously used: C++.
Communication:	Bilingual English & Korean.

Honors & Awards

Mar 2013
- Jun 2015
| **UCSB Letters & Science Honors Program**
Awarded for "outstanding academic record". Required maintenance of 3.6 GPA minimum.

Jun 2015
| **Departmental Asian-American Literature Coursework Award**
Awarded for "single most exemplary piece of writing" among over 400 candidates.

May 2013
| **Gunn Foundation Scholarship**
Awarded $3,000 in recognition of exceptional academic performance. The scholarship is given to first-generation students who have overcome significant personal and financial challenges.