

HIUN SHIM

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Education

University of California, Berkeley, Berkeley, CA
Academic GPA: 3.7
Major: Computer Science (Intended)
Level: Sophomore

Expected Spring 2021

Relevant Curriculum

- Data Structures and Algorithms
- Designing Information Devices and Systems
- Structure and Interpretation of Programs
- Web Development

Projects

AvalonAI – Python, SQL

- Artificial Intelligence program that gives the best possible combinations of the formation of the players in the game called Avalon, which is a multiplayer board game.
- Takes input from the user and calculates the likelihood of the roles of each player using the heuristics.
- Uses SQLite to manage the heuristic scores and outputs it using the GUI coded in Python.

Bear Maps - Java

- Constructed the back-end of the open source map of Berkeley like Google Maps.
- Implemented a A* search algorithm for pathfinding and efficient graph traversals.
- Used Tries for fast searching of a desired location on the map.
- Parsed OSM XML files using XML SAX parser to make the graph.

Gitlet - Java

- Created a version of Git from scratch.
- Implemented data structures such as hash map, hash set, and linked list.

NBody - Java

- Simulated planet movements using gravitational algorithms.

Scheme - Python

- Program that interprets the Scheme programming language.

Ants - Python

- Constructed using Object Oriented Programming.
- Mini game that operates like the Plants vs. Zombies game.

Hog - Python

- Strategic dice game where users can make their own strategy. AI was created by using heatmap of best possible moves in any situations.

Time – C#

- Time reversing action 2D Flash game created using C# language, Visual Studio, and Unity.

Other Interests & Qualifications

Coding Skills – Language and Software

- Proficient: Python, Java, HTML, CSS, JavaScript,
- Skilled: Adobe XD, Adobe Illustrator
- Familiar: Scheme, SQL, C, C++, C#, Visual Studio

Human Languages

- Fluent/Bilingual proficiency in English and Korean
- Elementary proficiency in Mandarin

Physics Research Shadowing, California State University - Los Angeles

August of 2016

- Observed and gained experience in lab research as well as the subject of physics itself. Topics covered included particle physics and material science as well as carbon dating.

Taekwondo

January of 2004 - Current

- Recognized with a Fourth Dan Black Belt, symbol of honor as those who hold it are officially allowed to construct a taekwondo facility and instruct students on their own. Have taught classes outside of college.