BRANDON HONG
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EDUCATION

OREGON STATE UNIVERSITY
BACHELOR OF SCIENCE
September 2020 – Present | Online Program
Major: Computer Science

UNIVERSITY OF CALIFORNIA – LOS ANGELES
MASTER OF SCIENCE
Graduated June 2019 | Los Angeles, CA
Major: Structural & Earthquake Engineering

CALIFORNIA STATE UNIVERSITY – LONG BEACH
BACHELOR OF SCIENCE
Graduated December 2017 | Long Beach, CA
Major: Civil Engineering

SKILLS

TECHNICAL SKILLS
Python3 | JavaScript | ASM | HTML5 | CSS | MATLAB | Microsoft VBA | C | SQL

WORK EXPERIENCE

KPFF
DESIGN ENGINEER – STRUCTURAL ENGINEERING
June 2019 – April 2021 | Los Angeles, CA

- Utilized Excel and Microsoft VBA to develop an application to automate structural analysis calculations for spandrels and CMU shear walls for Kaiser hospital project
- Managed several TI projects that required daily coordination between contractor and design team in a remote work environment
- Performed gravity analysis and lateral analysis using structural analysis softwares, ETABS and RAM Structures, respectively
- Designed connections and foundations for custom art structures
- Created local models in Risa3D to analyze material behavior of small-scale structures
- Designed large scale hospital and school projects from beginning calculations to construction phase

AECOM
PROJECT ENGINEER – CONSTRUCTION
June 2017 – September 2018 | Los Angeles, CA

- Managed mechanical, electrical, plumbing, steel, concrete, and multiple miscellaneous trades in the construction of a mixed-use 200-million-dollar luxury hotel and condominium located on Sunset Boulevard
- Created bid proposals and contracts to facilitate multiple miscellaneous trades joining the project
- Spear-headed the on-boarding process for new team members for efficient transitions onto the project team

PROJECTS

JANGGI GAME
March 2021 | Oregon State University | GitHub

- Built an application that simulates the Korean version of chess through initializing the game board and accepting user input to move the pieces. The program will validate the users moves and notify the user when they are in check.
- Implemented in Python3 using searching algorithm, variable declaration, conditional statements, and loops

CMU SHEAR WALL CALCULATOR
October 2020 | KPFF

- Created an application that optimizes the structural design process by accepting input data from the user and structural software, ETABS, and returning calculated design capacities for shear walls
- Utilized Excel and Microsoft VBA

Array15
December 2020 | Oregon State University | Github

- Developed an application that takes a users array and can determine if one can reach the end without moving off the array.
- Utilized Python3 with a recursion and binary tree algorithm.