

# BOI-HIEN HUANG

## Education

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University of California, Riverside  
B.S. Computer Engineering 2021

Sept. 2017 to June 2021

## Employment

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### Stater Bros. Market, Jack in the Box

Courtesy Clerk and Cashier

Westminster, CA 92683

June 2017 to Sept. 2018

- Worked at various food service companies during the summers between studies
- Provided a positive customer service experience while completing quick calculations in a fast paced environment
- Assisted customers with groceries, collected shopping carts, and refilled dispense machines

## Projects

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### Conway's Game of Life

Jan. 2018

- Developed a cellular automation program that simulated the life cycle of a population with introductory C++ knowledge
- Created an algorithm that allowed the population to grow, but also decline at a realistic pace
- Challenges: Cells of population grew outside the field of view and created bugs with the algorithm
- Resolutions: Programmed a boundary that prevented the population from growing past it

### BreakOut

June 2019

- Re-created the game Breakout on the Atmega 1284 micro controller using C in Atmel Studios
- Utilized hardware complexities such as LED Matrix, SNES controller, and shift registers
- Challenges: LED matrix did not output correct binary values
- Resolution: Created a row and col structure that defined the positions of the LED lights
- Demo Video: [https://www.youtube.com/watch?v=xrwwl\\_xu\\_2k](https://www.youtube.com/watch?v=xrwwl_xu_2k)

### Teamfight Tactics Android Application

Aug. 2019

- Designed a helper app that provided missing features for the game Teamfight Tactics using Android Studios
- Gained exposure to app development and learned the basics of Java and XML files
- Working on Parsing JSON data from the web in order to create an activity that provides up to date news on the game

## Awards

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La Quinta High School · **Perfect Attendance**

June 2017

## Activities

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### BeachHacks

May 2018

- Worked on a 3D rolling ball puzzle game utilizing Unity game engine
- Created a C# script that allowed the movement of ball with a mouse
- Presented project to club (Association of Computing Machinery)

## Contact

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## Technical Skills

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### PROGRAMMING

C++ (Proficient)  
Java (Proficient)  
C (Proficient)  
HTML (Novice)  
CSS (Novice)  
Python (Novice)  
C# (Novice)

## Relevant Coursework

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Data Structures and Algorithms (C++)

Object Oriented Programming (C++)

Operating Systems (Xv6)

Unix System Administrations (Bash, Perl, Python, PHP)

Embedded Systems (C)