

# John He

<http://johnhe.xyz/>

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2338 Spectra Southside, Unit 302  
Berkeley, California 94704

## EDUCATION

**University of California, Berkeley - College of Letters and Science**

August 2020 - May 2024

*Bachelor of Arts in Computer Science*

GPA: 4.00/4.00

Generation Change Scholarship recipient

Relevant coursework:

- Structure and Interpretation of Computer Programs
- Data Structures
- Designing Information Devices and Systems I
- Designing Information Devices and Systems II

Current coursework:

- Great Ideas of Computer Architecture (Machine Structures)
- Discrete Mathematics and Probability Theory

## EXPERIENCE

**Software Engineer (Full-Stack)**, [www.doriot.com](http://www.doriot.com)

July 2020 - Present

- Develop a mobile application focused on educating about startup-investing through a simulation
- Worked on registration and authentication flow on both the front-end and back-end
- Created logic and UI for the presentation of informational lessons and quizzes
- Maintain a .NET API on the back-end for user and investment logic
- Build and style screens within the application using React Native and CSS
- Implement data storage locally within the user's device
- Manage and load data from spreadsheets into a PostgreSQL database using Python
- Practice Agile-like Development, using Jira to organize sprints

## PROJECTS

**Personal Website**, <http://johnhe.xyz/>

August 2021

- Created a personal website with Next.js about me and my interests
- Built and styled pages with HTML elements, Next.js components, and CSS
- Designed a phone-like UI to organize and display information
- Recreated styling and behavior of popular applications such as Wikipedia, Spotify, and Netflix

**Dungeon Escape**, demonstration: <https://youtu.be/z65RVMKh0fI>

April 2021

- Worked with a partner to create a two-dimensional world exploration game in Java
- Randomly generated a landscape of rooms and hallways based on a seed entered by the user
- Spawned special objects within the game that the player can interact with
- Designed a menu for users to modify the generation of the world
- Implemented a system for saving and loading the game by writing to text files

**Stock Bot**, <https://github.com/heisjohn/stockbot>

2019 - 2020

- Developed a Discord bot that procedurally generates a mock stock market where users buy and sell stocks with chat commands
- Stored and modified user data using the Python JSON library
- Automatically produced charts for stocks using Matplotlib
- Interacted with the Discord API to detect commands and send out images and messages

## SKILLS

- Strong understanding of Python, Javascript, Java
- Basic understanding of C#
- React Native, React, Next.js
- HTML, CSS
- Jira for project management and organization
- Version Control - Git, Github, Bitbucket

## ACHIEVEMENTS

- National AP Scholar
- National Honor Society
- Perfect score on the ACT
- AAPT Physics Bowl 1st place in Illinois, Iowa, Nebraska, and Wisconsin (2019)
- ICTM Written Competition 4th place in Illinois (2019)