

ETHAN HU

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EDUCATION

University of California, Santa Cruz

June 2021

Bachelor of Science, B.S. in Computer Science

Santa Cruz, CA

- Coursework – Data Structures, Database Systems, Computer Networks, Data Mining, Linear Programming, Computer Program Structures, Discrete Mathematics, Linear Algebra, Ordinary Differential Equations

SKILLS

Languages C, C++, CSS, HTML, Java, JavaScript, Python, SQL

Databases MongoDB, MySQL, Oracle Database, PostgreSQL

Utilities AWS, Android Studio, Bootstrap, Git, Node.js

EXPERIENCE

UC Santa Cruz Engineering Department

March 2021 – June 2021

CSE175 Lead

Santa Cruz, CA

- Facilitated a group of 20+ students in a real-world consulting project that aimed to increase customer reach and improve existing services for a local organization, the Santa Cruz Mountains Art Center
- Developed the prototype of a new application for the organization using Java and Kotlin that allowed artists and teachers to connect with potential students

ON Semiconductor

July 2019 – September 2019

Software and Operations Intern

San Jose, CA

- Eliminated the need for having to manually input new entries into company database servers by using Python and MySQL to automatically update the records in the server at a set interval
- Built a program using Python that could create accurate extrapolated visualizations from any data by performing multiple regression algorithms and picking the best result; presented to Quantenna executives in a board meeting for analysis of patterns, trends, and expected future outcomes

ViaBot Inc. Robotics Startup

June 2018 – August 2018

Software Engineer Intern

Palo Alto, CA

- Designed a framework for the graphical interface of the RUNO autonomous sweeper robot using Bootstrap and HTML to enable robot remote operation
- Improved the consistency and accuracy of the robot's autonomous navigation capabilities by performing both real-life and remote trial runs and adjusting the Python code of its sonar sensors and GPS tracking system accordingly

PROJECTS

BetterDiscord Plugins | JavaScript, Node.js

June 2021

- Designed plugins for the communications platform Discord using JavaScript and Node.js that gave users more options and features
- These plugins granted users increased customization of the user interface, such as the ability to show, move, or hide certain UI sections and toggle game or activity status

Online Shopping Bot | Python, Selenium

May 2021

- Developed an online shopping bot using Python and Selenium that could autonomously navigate through a store web page, add chosen items to cart, and check out with auto-fill features

Reddit vs. GameStop Sentiment Analyzer | Python, JSON

March 2021

- Developed an analyzation tool that aimed to reveal any trends between Reddit posts and GameStop share price by parsing through Reddit post history in the form of a JSON dictionary to evaluate common words and phrases
- Applied the VADER sentiment analysis algorithm using Python to determine if overall attitude towards GameStop on Reddit affected its share price

Android Calculator Application | Java, XML

January 2019

- Created a calculator application for the Android platform using Java in Android Studio that is capable of performing basic and scientific mathematical functions and equations
- Designed an interactive interface using XML to provide a clean and concise layout for the application