

ETHAN HU

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EDUCATION

University of California, Santa Cruz

June 2021

Bachelor of Science, B.S., Technology Information Management

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

Databases – MongoDB, MySQL, Oracle Database, PostgreSQL

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

EXPERIENCE

University of California, Santa Cruz Engineering Department

March 2021 – June 2021

CSE175 Course Project 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

Startup 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

Discord Plugins | *JavaScript, Node.js*

June 2021

- Built plugins for the Discord application using JavaScript and Node.js that added extra functionality for its users
- Functions of these plugins include the ability to hide and show certain parts of the user interface and toggle current status and activity

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