

# ETHAN HU

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## NOTABLE

### PYTHON CLOUD SHOPPING BOT

Created an online shopping bot that is capable..

### AWS CERTIFIED CLOUD PRACTITIONER

Designed and hosted a web server using AWS

### WEBSITE DESIGN

Created some other app that is notable

## EDUCATION

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

*Bachelor of Science, B.S. in Computer Science*

June 2021

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

**Databases** MySQL, MariaDB, MongoDB, Oracle Database, PostgreSQL

**Utilities** AWS Certified Cloud, Node.js, Git, Android Studio, Bootstrap

## 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

### OVERLEAF L<sup>A</sup>T<sub>E</sub>X TEMPLATES | *LaTeX*

August 2021

- Designed and published resume template in LaTeX with function that stretched or scaled resume to single page

### AWS WEB DEVELOPMENT | *JavaScript, Node.js, PHP*

August 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

### 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

### 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