

Anthony Chao

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TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, Java, HTML/CSS, SQL, R, Bash

Libraries/Tools: Django, Flask, React, Redux, Git, ESP-IDF, Firebase, AWS, MySQL, PostgreSQL, Scrapy

WORK EXPERIENCE

Embedded Software Engineer — AVA Technologies Inc. *September 2020 - Present*

- Redesigned and developed the firmware that runs AVA's second generation smart garden, the Byte, using the Espressif ESP32 microcontroller
- Utilized the ESP-IDF framework to provide core functionalities such as WiFi connection, OTA updates, MQTT communication, and peripheral control
- Cut expected manufacturing costs of the second generation Byte by 65%
- Migrated DevOps firmware build process from local machine to AWS cloud services to decrease build time by 50%, and increase robustness and scalability

PERSONAL PROJECT EXPERIENCE

E-Commerce Web Application *<https://github.com/anthonysea/clown-clothing>*

- Created a mock e-commerce web application using React, Redux, React-Router, Firebase, and Stripe
- Integrated user sign-in with Firebase as well as state persistence for the cart using local storage
- Simulated customer payment user flow using Stripe

Email Parsing Raffle Program

- Developed an email parsing program to automatically select raffle winners for raffles at Menu Skateshop
- Parsed email raffle entries, validating entries and removing any banned or duplicate entries
- Reduced overall time to select raffle winners by 80%

Animal Crossing: New Horizons Web Application *https://github.com/anthonysea/acnh_web_app*

- Designed and constructed the frontend and backend systems for an Animal Crossing: New Horizons game guide web application
- Scraped game data using Scrapy which was used to populate the Firebase backend
- Completed the frontend interface using React which would dynamically fetch data from Firebase

ACADEMIC PROJECT EXPERIENCE

Project Management Tool — Web-Based Info Systems, CMPT 470 *May 2019 - August 2019*

- Collaborated with a team of six members to create a project management tool for bug and feature tracking, implemented with Vue.js and the Django REST Framework
- Created the API endpoints that supported essential CRUD commands and implemented permissions that restricted access to those endpoints
- Implemented authentication rules using JSON Web Tokens that were customized for the frontend

OTHER WORK EXPERIENCE

Stussy Vancouver — Assistant Manager *October 2017 - Present*

- Maintained the aesthetic of the shop, ensuring that clothes were presented following the visual merchandising guidelines
- Handled set-up and closing of the shop which consisted of merchandising clothes, cleaning the shop, and ensuring that it was ready for the next day

EDUCATION

Simon Fraser University

Bachelor of Computing Science

September 2016 - August 2019

Langara College

Associates of Science in Computing Science (Curriculum)

September 2014 - April 2016