

NATHANIEL TJANDRA

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EDUCATION

University of California - Santa Cruz, California
Bachelors of Science in Computer Science
GPA: 3.35

August 2018 - June 2020

City College of San Francisco, California
Certificate of Achievement: C++ Programming

August 2016 - June 2018

PROJECTS

SuppCheck

January 17-19, 2020

Hackathon project that allows users to look up health benefits of ingredients in fitness supplements.

- Set up our technical stack and integrated Google's Cloud Vision API to interpret images of containers.
- Created an image parser to spell check and categorize ingredients by organic versus chemical.

RentMyJunk

August 2019 - January 2020

A web platform that aims to reduce the landfill by encouraging users to rent out excess goods.

- Deployed a CRUD API on AWS built in Flask to query the database and interact with our React front end. Primary functions are account management, posting, reviewing, and reporting users.

TECHNICAL STRENGTHS

Software Development

Agile, Scrum, Postman, Travis CI, Trello

Software Frameworks

Flask, React, PostgreSQL, MySQL, Firebase, MongoDB

Programming Languages

Python, SQL, C/C++, Java, JavaScript, HTML

WORK EXPERIENCE

Scrum Master, SEADS Vault, Santa Cruz, CA

January 2020 - Present

Developed software to perform analysis on household voltages to provide outage detection for rural areas, created in partnership with the Resilient Renewable Efficient Energy Systems Lab at UCSC.

- Created a REST API to register an device, view devices on a map, and log outage history.
- Set up email automation flow to detect anomalies and send outage notifications to subscribed users.
- Simulated system tests for the backend to test scalability and load balancing during heavy traffic.
- Presented posters, presentations, diagrams, and documentation as a panelist for Partner's Day celebration with UCSC community members and sponsors.

Chemistry Tutor, Learning Assistance Center, San Francisco, CA

January 2017 - May 2018

Provided group and one on one tutoring to students with additional learning needs or accommodations.

- Developed communication skills for working with colleagues in a professional environment.

ACHIEVEMENTS

SuppCheck Second Place in Health Hack Category at CruzHacks 2020

SuppCheck Runner-Up for Best Use of GCP at CruzHacks 2020

COURSES

Analysis of Algorithms, Applied Machine Learning, Artificial Intelligence, Computer Architecture, Computer System Design, Data Structures, Functional Programming, Game AI, Probability Theory, Software Design Project