BRANDON VU

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EDUCATION

University of California, Irvine **SEPT 2019 - PRESENT**

B.S. in Computer Science - Anticipated Graduation: June 2023

EXPERIENCE

Google Inc., Virtual Internship - *STEP Intern* **JUNE 14 - SEPT 3, 2021**

- Designed and deployed a latency injection backend for RPC Record/Replay in a configuration-driven testing framework. Utilized protocol buffers to configure latency specifications for the system under test. Produced RPC services with gRPC framework and used Guice to link latency service with RPCReplay proxies. Conducted all tests for written code with Bazel.
- Worked collaboratively with Google Engineers and another intern. Attended team benchmark meetings.

JUNE 15 - SEPT 4, 2020

- Developed a web application(GESRA) that utilizes Gmail API and TensorFlow machine learning(ML) model to process natural language questions.
- Wrote algorithms using Javascript to integrate ML model and used Jasmine and Istanbul testing framework. Wrote a Design Document to plan and visualize the final product.

Stanford University's Code in Place, Virtual Program - *Section Leader* **APRIL 10 - MAY 22, 2020**

APRIL 19 - MAY 28, 2021

- Taught a weekly discussion section of 10-12 students to supplement professors' lectures in a 5-week online Python programming course based on Stanford's introductory programming course, CS106A.

UCI Independent Research, UCI - *Undergraduate Researcher* **JUNE 25 2018 - MAY 2021**

- Designed ultrasound/EEG cap model using computer-aided design software to analyze amyloid-beta plaque clearance for Alzheimer's Disease in the William Tang Lab
- Constructed brain-cooling pump with peltier chips to modulate the temperature of cerebrospinal fluid.

PROJECTS

GESRA: Javascript/Java **JUNE-SEPT 2020**

- Ask a question about emails from the user's inbox to give answers using TensorFlow Machine Learning Model. Used Javascript to communicate with TensorFlow and developed a detailed testing framework. Github: https://github.com/brandonvu12/capstoneproject

seEmotion: Python/C++ **FEB 2020**

- An application that utilizes Google Cloud Vision API to analyze emotions using webcam images to determine if the subject is confused. Worked on the backend using Python to communicate with API. Stanford University's TreeHacks 2020. Github: https://github.com/brandonvu12/seEmotion

Random Eats: Python **NOV 2019**

- Randomly generates a place to eat with Google Maps using search parameters of a location and food category using Yelp's API for UCI ZotHacks 2019. Implemented the API to communicate with Google Maps Github: https://github.com/brandonvu12/random_eats

Shomigo: Python **JULY 2019**

- API implemented platform for sharing watched T.V. shows. Utilized Movie/Show API in Python to properly display information. GitHub: https://github.com/brandonvu12/shomigo

SKILLS

Python • C/C++ • Bazel • HTML • Javascript • Java • Assembly • TensorFlow • Protocol Buffers • gRPC • Guice