Johnson Su

Computer Science

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Languages

C, Python, Swift, HTML, CSS, and Javascript

Tools & API's

Node.js, Brain.js, Tensorflow, Google Firebase, Spotify API, Raspberry Pi, and Jetson Nano

Design

Product Design, Adobe Illustrator, Photoshop, Figma, and Bootstrap

Strengths

Problem Solving, Leadership, Teamwork, Communication, Conflict Management

Awards & achievements

MLH Best Use of Google Cloud

RU Hacks 2nd Overall

Hack the Northeast
 Top 10 in machine learning
 Top 10 viable startup ideas

Wolfram Alpha Award

Waterloo math content distinction [3 years]

Experience

Farmbot | Jul 2019 - Present
Freelance

- Working with Tensorflow and the Jetson Nano to implement machine learning based plant recognition
- Developed programs with Google translate API for translating keywords for international buyers
- Constructed several high level system diagrams for the open source community and assisted Farmbot's education initiative
- Audited Farmbot's web app for bugs improving product experience for thousands of users

AMACSS | Oct 2019 - April 2020
Director of External Affairs

- Maintained contact with external organizations and individuals for several events hosted through the year.
- Served as the point of contact for Silicon Valley organizations for the funding of a tricampus CTF (Hacking Capture the Flag) event.

Projects

Vibe Check | Data powered playlist filter
Machine Learning and Datascience

Created and trained a neural network with Brain.js to recognize playlist genres and did the UI/UX design with Figma and converted it to HTML, CSS, and Javascript. Also interpreted raw song data to useful information.

Planty | Enviromental Chrome Extension
Product Design, Backend with Databases

Designed and created the user interface using Figma, HTML, CSS, and Javascript. Also worked in the backend by reading and writing into a Google Firebase Database and interpreting the web scraper data with Javascript.

Farmily | COVID-19 food waste reducing web app
Product Design, Backend with Databases

Worked with a Google Firebase Database to store user information and Google Maps API information. Also created the user interface and converted it to code.

Education

University of Toronto | Expected: Apr 2024

Computer Science Co-op | CGPA: 3.35