

Vivian Li

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Education

Tufts University GPA: 3.99

Medford, MA, USA

Majors: Computer Science, Cognitive and Brain Science

September 2020 - May 2024

Courses: Simple Virtual Machine, Internet-Scale Distributed System, Compiler, Machine Structure and Assembly Language, Algorithm, Programming Language, Data Structure, Web Programming, Machine Learning, Computational Models in Cognitive Science

Experience

Sonos Inc

Boston, MA, USA

Software Engineer Intern

June 2023 - Aug 2023

- Acquired proficiency in Kotlin, Compose Multi-platform, and Android development.
- Designed architecture for a Compose Desktop application using MVVM pattern and SOLID principle.
- Built a fully functional app to set up Sonos speakers and control synchronized playback among multiple speakers.

Tufts University Human Interaction Lab

Medford, MA, USA

Lab Research Intern

June 2022 - June 2023

- Worked as a core developer in a desktop application for conversation analysis.
- Lead the development team from project inception to beta package release. Acquired project funds from Sage Ocean grant.
- Provide implementation design to new summer intern to extend app with new features after beta release.

Tufts University Computer Science Department

Medford, MA, USA

Teaching Assistant

January 2022 - current

- Held office hours and graded students' projects for Programming Language and Web Development Course.
- Led weekly recitation to help students reinforce concepts in the Programming Language course through hands-on practice.

Tufts University International Center

Medford, MA, USA

Web Design Assistant

June 2022 - December 2022

- Restructured and Implemented website for international center service.
- Collected and integrated user feedback during international center staff meeting.

Projects

Simple Virtual Machine and Universal Forward Translator.

C, Standard ML

January 2023 - May 2022

- Built a compiler of a subset of scheme programming language and a virtual machine that runs the compiled machine code.
- Implemented additional language features including closure, automatic currying, and exception handling.

GailBot

Python, PyQt, Jamf Composer, PyInstaller, Pytest

September 2022 - September 2023

- Designed and implemented an audio analysis pipeline with configurable speech-to-text engine settings and plugins.
- Built a desktop interface and released the desktop app package to around 15 conversation analysts during beta testing.

Convex Hull Solver Simulator

p5.js, Typescript, React.js

January 2023

- Created an interactive web page simulator that visually displayed the steps to solve the Convex Hull problem with four different algorithms.

Dream

React Native, Node.js, TypeScript, MongoDB

June 2022 - August 2022

- Participated in a team project to develop a Mobile App used for dream recording.
- Implemented a user account system and a dream recording calendar.

Boba Tea Generator

HTML, Javascript, Flask, Python

January 2022 - March 2022

- Designed and created an interactive boba tea menu with visual animation to simulate different drink choices.

Skills

Programming

Kotlin, C/C++, Python, Javascript, Typescript, CSS, HTML, Standard ML, Shell Script,

Framework and Technologies

Jetpack Compose, React Js/React Native, Node.js, Express, Flask, PyQt, MongoDB, Git

Software

Figma, Photoshop, Final Cut Pro