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Education

GPA: 3.99 Tufts University

Medford MA USA

Majors: Computer Science, Cognitive and Brain Science

Septemper 2020 - May 2024

Courses: Software Engineering, 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.
- · Led the development team from project inception to beta package release. Acquired project funds from Sage Ocean grant.
- Provided architect design to new lab interns on new app features after beta release.

Tufts University Computer Science Department

Medford, MA, USA

Teaching Assistant January 2022 - current

- · Hold office hours and graded students' projects for Programming Language and Web Development Course.
- · Lead 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 the staff meeting.

Projects.

Simple Virtual Machine and Universal Forward Translator

C, Standard ML January 2023 - May 2022

- Implemented a multi-pass compiler for a scheme-like language and a virtual machine that accepts the compiled machine code.
- · Completed core language features including high order function, closure conversion, automatic currying, and exception handling.

GailBot

Python, PyQt, Jamf Composer, PyInstaller, Pytest

September 2022 - September 2023

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

N-Queen Solver

Kotlin, Compose Multi-platform, Gradle

September 2023

- Built a desktop teaching tool to present the algorithmic steps of solving the N-Queens problem.
- Helped students understand the use of continuation passing style in backtracking problems with visual animation.

Convex Hull Simulator

p5.js, Typescript, React.js

January 2023

· Created an interactive simulator to display the steps of solving 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.

Skills_

Software

Programming Framework and Technologies Kotlin, C/C++, Java, Python, JavaScript, Typescript, Standard ML, Ocaml, Shell Script, CSS, HTML

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

Figma, Photoshop, Final Cut Pro