

Isaac Chan

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Education

Boston University

Expected May, 2027

Bachelor of Arts - Computer Science, GPA: 3.63

Notable courses: Intro to Computer Science 1-2, Combinatoric Structures, Intro to Databases

Experience

Pupil

December, 2023 - Present

Software Engineer Intern

- **Revamped the entire main website page**, getpupil.com, using the framework Svelte to create a more attractive and intricate site that the company can **utilize for investors, partnerships, and users**.
- Developed a **fully reactive design** using native JavaScript and a mix of CSS Flexbox and Media Queries to ensure the main page retains a consistent and eloquent design across all platforms and devices.
- Communicated directly with the CEO, CTO, and design team using **Scrum methodology** to create a more productive and efficient workflow across all branches, utilizing Figma, GitHub, and VSCode's Live Share for collaborative work.
- Worked in a team of 4 software engineers to implement features such as a foldable iPhone animation using GSAP, the creation of moving background animations using CSS keyframes, button hover effects, and a newly developed navbar and footer.
- Assembled the entire static design using HTML, CSS, and JavaScript, using multiple assets given from the design team, as well as hotfixed multiple styling and other adjacent errors from multiple pages of the website.

Headstarter

July, 2024 - Present

Software Engineer Fellow

- Working in a team of 4 other software engineers through a 7 week fellowship that contains over 5 AI coding projects.
- Attending multiple software engineering networking events, interview preparation workshops, and mock interview practices.

Projects

Map Emissions | React.js (HTML, Javascript, CSS), Flask, Axios, Lanchain, Groq

May, 2024 - July, 2024

Independent | *GitHub Link:* <https://github.com/isaacchan1213/MapEmissions.git>

- Developed a **web application** using Flask as the backend and React as the frontend to calculate and visualize average carbon emission released in a singular trip, **using data retrieved from the Google Maps Distance and Places API**.
- Created a searchable dropdown list for a **dataset containing over 7000 vehicles** options, using Axios to connect the server-side data to the frontend, using Flask to connect a real-world JSON dataset containing car models and their CO2 emissions.
- Implemented Groq and Lanchain to create AI suggestions of how to reduce emissions based on user data put into their trip.
- Used HTML, CSS, and JS to create modern navigation features, designing and implementing a user-friendly directions interface with an autocomplete search bar for location input, a reset button, and selectable means of transportation buttons.

Korean Quiz Simulator | Python, Anaconda

October, 2023

Independent | *GitHub Link:* <https://github.com/isaacchan1213/Korean-Quiz-Simulator.git>

- Utilized **Google's Text-to-Speech API** to simulate a Korean vocabulary quiz that mocks a real world testing environment.
- Integrated a terminal based user interface that directs users how to add, play, and show definitions of vocab words.
- Applied **Python's OS Module** and **Playsound** from their respective libraries to create audible sounds within native devices.
- Created a simple partitioning algorithm that checks the Korean unicode values to identify differences between English and Korean words, creating ease in partitioning any vocabulary word list.

Leadership

Hack4Impact (Vice President of Community)

April, 2024 - Ongoing

- **Planning over 5 events** for the Fall 2024 semester that enables students at BU to better **familiarize themselves to the computer science and software engineering field**, hosting events such as a mini-hackathon, interview workshops, and more.
- Regularly participate in bi-weekly meetings with the executive board to coordinate club logistics, prepare upcoming collaborations with other clubs and companies, and deliver consistent updates for the events side of the team.
- Worked with the finance team to provide accurate estimations for club funding and planned outreach ideas with the events team that will build a greater sense of community, enhance member engagement, and ensure club longevity.

Skills

- **Programming Languages:** Java, Python, Swift
- **Web Technologies & Databases:** HTML, CSS/SCSS, MySQL
- **Frameworks & Libraries:** Svelte, React, Node.js, Flask, Lanchain, Groq
- **Developer Tools:** VS Code, GitHub, npm, Node.js, Axios, Spyder, PyCharm, Anaconda, Figma