Christopher Ko

chrisko2003@gmail.com · +1(407)978-1025 · `linkedin` · `github`

Education

FLORIDA STATE UNIVERSITY, *B.S. Computer Science* — SEPTEMBER 2021 - MAY 2025

<u>Honors & Awards</u>: Deans List Fall 2021, Fall 2023

<u>Selected Coursework</u>: Data Structures I, Data Structures II, Computer Organization, Advanced Java Programming

<u>GPA</u>: 3.50/4.00

Work Experience

FLORIDA STATE UNIVERSITY MACHINE LEARNING LAB, *Undergraduate Researcher* — APRIL 2023 - PRESENT
- Contributed to the development of a binaural beats application using Unity.
- Employed machine learning based audio processing techniques.
- Worked with Large Language Models, Diffusion Models, and Convolutional Networks.

Projects

PERSONAL PROJECTS

Automated Purchasing Bot
- Developed an image detection bot in Python to automate item purchases in an online game.

Animation Study Tool
- Created a video player in Python with a built-in timer, allowing animators to study movie clips and animations.
- Allows frame-by-frame analysis and custom jump intervals.

AI Assistant
- Created a talking chatbot in Python that understands and produces speech utilizing artificial intelligence.
- Utilizes OpenAI's API for communication and Whisper API for transcriptions.

Class Registration Bot
- Developed a script in Python that automates class registration.
- Utilizes the Selenium API to send HTTP requests and Pickle to skip two-factor authentication.

Online Portfolio
- Built a simple full-stack website using Node JS, the Express framework, HTML, and CSS.
- Created and managed Google Cloud Infrastructure to host website.

CLASS PROJECTS

Data Structures
- Implemented various data structures and algorithms in C++11.
- Breadth-first search, HashMap, and Balanced BST.

Computer Organization
- Created a cache simulator that supports multi set-associativity in C++.
- Developed a Hexadecimal to Decimal converter in Assembly.

Activities

FSU ACM HACKATHON — APRIL 2023 - NOVEMBER 2023
- Participated in coding competition.
- Solved various algorithmic problems in C++.
- Ranked top 10.

FSU TABLE TENNIS, *Team Member* — 2022 - PRESENT
- Represented FSU in tournaments against other universities in Florida.

Languages and Tools

Programming Languages: C/C++, JavaScript, Python
Spoken Languages: English (Native), Portuguese (Native), Japanese (Intermediate)
Tools: Anaconda, Git