Haojun Yuan

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Education

Georgia Institute of Technology | BS in Computer Science **Graduating December 2022**

- Concentrations: Artificial Intelligence & Device (GPA 3.96/4.0)
- Activities & Volunteering: GT iOS Club, Mixed Reality Club, Volunteer for GT Welcome Day
- Faculty Honors, Dean's List (Fall 2020 - Present)

Experience

Georgia Institute of Technology: Junior Design - Software Engineer **Jan 2022- Present**

- Developing an app for AudioT.AI to help farmers identify sick chickens among flocks by their cluck
- Building a deep neural network for the app to accurately identify & segment audio clips containing cluck

College of Computing at Georgia Tech - Teaching Assistant **Aug 2021 - Dec 2021**

- Taught a recitation of the course with 60 students, with over 50% of the students receiving an A grade
- Created and graded course assignments/assessments for over 300 students and held office hours weekly

Shanghai Pudong Development Bank - Software Engineering Intern - iOS **Jun 2021 - Aug 2021**

- Prototyped and developed a virtual banking assistant for the bank's iOS app supporting both text and voice input to help clients check and access banking services faster
- Developed an App Clip for iOS 15 that allows customers to monitor their daily financial earnings

Selected Projects

Forward (Swift & SwiftUI) **March 2022 - Present**

- Independently developing an iOS software to help users achieve self-discipline and be more productive

AR Model Viewer (Swift & SwiftUI, ARKit) **Feb 2022 - Present**

- Developing an iOS application that uses AR technology to help users to put 3D models into reality and take pictures of them

Resonance (React.js, HTML, CSS) **Spring 2022**

- Built a webpage that helps users search for music and create playlists for their Spotify accounts
- Supports quick add/remove songs and searching by song/album/artist name using the Spotify API

Speech Activity Recognition (Python, TensorFlow) **Fall 2021**

- Collaborated with four peers to build an NLP-based solution for data analysts that can identify and label human voice segments from audio containing background noise with over 87% accuracy

NeoAssistant (FPGA, Intel Quartus Prime, VHDL, Assembly) **Fall 2021**

- Engineered a peripheral for NeoPixel LEDs that allows users to control up to 256 LEDs to display 16-bit/24-bit colors using a DE10-Lite board
- Built a feature based on the DE10-Lite board's built-in gravity sensor that allows the user to control the movement of a light dot on the LED display by tilting the DE10-Lite board

Technical Skills

Programming Languages: Java, Swift, Python, JavaScript, C/C++, HTML, CSS, VHDL, Assembly
Tools: VS Code, Xcode, SwiftUI, Git, Bootstrap, React.js, JavaFX, Unity, MySQL, TensorFlow