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 Welcoming Week
- Faculty Honors, Dean's List (Fall 2020 - Present)

Experience

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

- Developing an app for AudioT.AI to help farmers identify sick chickens among flocks by their cluck
- Building and training a deep neural network 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 access banking services faster
- Developed an App Clip for iOS 15 for clients to view their daily revenue from financial products

Selected Projects

iBlog (JavaScript, Node.js, Express, Bootstrap, MongoDB)   **Spring 2022**

- Independently developed a blog site that allows users to register accounts and post blogs

Museum Navigation Robot (Python, PyTorch)   **Spring 2022**

- Design, implement and train a convolutional neural network to recognize handwritten Japanese characters with a test accuracy of 94.13%
- Implemented rapidly-exploring random tree pathfinding algorithms and movement and steering functions for the robot to automatically follow the path obtained from RRT to the target coordinates

Resonance (JavaScript, React.js, Spotify API)   **Spring 2022**

- Developed a web app that helps users search for music and create playlists for their Spotify accounts
- Supports quick add/remove songs and search 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, 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

Technical Skills

Programming Languages: JavaScript, Java, Python, Swift, HTML, CSS, C/C++, VHDL, Assembly

Tools: VS Code, Xcode, Git, React.js, Node.js, Bootstrap, npm, MySQL, MongoDB, Unix, PyTorch, TensorFlow