Haojun Yuan

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Education

B.S. in Computer Science | Georgia Institute of Technology   **Graduating Dec 2022**

- Relevant Courses: Data Structures, Analysis of Algorithms, Networking, Databases, Machine Learning
- Dean's List (Fall 2020 - Present), Distinguished Teaching Assistant, Faculty Honors

Technical Skills

Languages: JavaScript (ES6, React, Redux, Node.js, Express), Python (Django, PyTorch), Java (Spring), Swift
Tools: Git, GitHub, REST API, SQL (MySQL, PostgreSQL), MongoDB, GraphQL, Firebase, Docker

Experience

Software Engineering Intern   May 2022 – Present
Popmenu Inc.   Atlanta, GA

- Engineering an AI chatbot for **10000+** restaurants to answer questions and handle reservations.
- Implemented the chatbot UI with reusable **React** components and tested the frontend UI with **Cypress**.
- Prototyped 7 chatbot services and built a **GraphQL API** to send queries, mutations and subscriptions.
- Wrote at least 5 unit tests for each chatbot feature and achieved 80% test coverage.

Software Engineering Intern   Jan 2022 - May 2022
Georgia Institute of Technology   Atlanta, GA

- Headed a team of 4 to redesign the UI with **Figma** for researchers to manage and label audio files.
- Upgraded the UI with **React** and improved code reusability by 60%. The new UI now displays 15 audio files per page (up from 5) and supports searching and sorting.
- Built a **REST API** for the app with **Node.js and Express** for testing purposes.

Teaching Assistant   Aug 2021 - Dec 2021
Georgia Institute of Technology   Atlanta, GA

- Taught a recitation of the course to 50 students, with over 50% of them received "A" grades.
- Instructed in one-on-one sessions, formulated and graded assessments, and worked with 11 other TAs.
- Led the new TA hiring process and conducted interviews with over 20 candidates.

Selected Projects

CloudSpace (*Python, Django, MySQL, Redis, Docker*)

- Engineered an inventory management system with a **REST API** using **Django** and **MySQL**.
- Applied caching with **Redis** to reduce response time by 30% and **Dockerized** the app for deployment.

ThriftZone (*JavaScript, React, Redux, Firebase, Material-UI*)

- Constructed a trading platform with **React** for college students to browse and list second-hand goods.
- Used **Redux** for application state management and **Firebase** for authentication and real-time database.

RentFlix (*JavaScript, React, Node.js, Express, MongoDB*)

- Developed a movie rental website with a **React** frontend that supports searching and filtering, a **REST API** built with **Node.js** and **Express** to handle requests, and **MongoDB** to store and serve data.
- Achieved a 20% reduction in lines of code by composing function components with **React Hooks**.

ARknights (*Swift & SwiftUI, ARKit*)

- Created an iOS AR app for users to interact with different portraits and animations of game characters.
- Followed MVVM architectural pattern and implemented on-demand download to reduce app size.

Honors and Awards

- Olympiads: State Computing Olympiad (Top 100), Chinese Mathematical Olympiad qualifications
- State Piano Competition Champion, NSDA Debate National Finalist (Top 50)