

# Haojun Yuan

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## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*M.Sc. in Computer Science*

*Jan 2023– May 2024 (Expected)*

*B.Sc. in Computer Science; GPA: 3.86/4.00*

*Aug 2020 – Dec 2022*

- **Relevant coursework:** Operating Systems, High Performance Computer Architecture, Networking, Advanced Algorithms, Probability and Statistics, Machine Learning

## EXPERIENCE

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### Amazon

Seattle, WA

*Software Engineering Intern*

*May 2023 – Aug 2023*

- Developed and deployed a Java backend server on AWS Lambda that uses REST API and DynamoDB to manage email contents, helping over 10,000 employees send email campaigns and savings over \$300,000 annually.
- Designed and implemented an email composing UI with React, allowing users to drag-and-drop HTML components into email layouts and reduced composing time by 33% compared to manual input.
- Covered new APIs and data access model with unit and integration tests, and conducted end-to-end UI testing with Cypress, achieving full test coverage to ensure functionality and robust releases.

### Popmenu

Atlanta, GA

*Software Engineering Intern*

*May 2022 – Aug 2022*

- Developed and deployed a full-stack chatbot, integrating natural language processing (NLP) and real-time data access to efficiently address customer inquiries for a network of over 9,000 restaurants.
- Developed a Django backend that integrated Google NLP service to extract customer intent from input, handling over 5000 daily requests and achieving an average response time of 4 seconds.
- Implemented the chatbot UI with React and Material UI, reduced web page rendering time by 70% compared to traditional Javascript and resulted in a 21% increase in chatbot usage.
- Configured the entire CI/CD pipeline for the chatbot with CircleCI, resulting in an estimated 25% reduction in feature deployment time while ensuring stable releases.

### Georgia Institute of Technology

Atlanta, GA

*Research and Teaching Assistant*

*Aug 2021 – Dec 2022*

- Research Assistant – Autonomous Robotics: Implemented a Rapidly-Exploring Random Tree algorithm for autonomous path planning. Trained a Neural Network with 91.4% accuracy for sign recognition and localization, and engineered automated navigation and driving for the robot.
- Teaching Assistant: Taught a weekly recitation for 55 students, resulting in 32 participants achieving top grades. Curated and graded assessments and exams, and fostered academic excellence.

## PROJECTS

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### GoFitness | [GitHub](#)

- Developed a backend server in Go utilizing REST API and SQLite to manage workout records, providing CRUD (Create, Read, Update, Delete) functionalities for tracking and maintaining workout data.

### Insights | [GitHub](#)

- Developed a React Native news app that fetches and displays news from diverse categories and resources, featuring a search functionality and support switching between light and dark modes.

### Siren | [GitHub](#)

- Developed and deployed a music-playing Discord bot with Python, serving over 200 users across 5 servers, enabling users to play songs, manage the music queue, skip tracks, and pause/resume the music.

### CPU Heat | [GitHub](#)

- Implemented an out-of-order CPU simulator in C++ based on the Intel architecture, used caching to optimize speed and a store buffer for memory consistency. Executed 10 million instructions with 100% accuracy.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript/TypeScript, Go, SQL, HTML/CSS

**Web Development:** React, Node.js, Express.js, Flask, MySQL, MongoDB

**Developer Tools:** Git, Docker, Linux, AWS, CI/CD, Groovy, GraphQL