

Hai Dao

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Education

Georgia Institute of Technology, Atlanta, GA

M.S. in Computer Science | GPA: 4.00

August 2023 – May 2024

B.S. in Computer Science | Major GPA: 4.00 / GPA: 3.84

August 2020 – August 2023

Relevant Courses: Information Visualization, Computer Networking, Information Security, Computer Graphic, Artificial Intelligence, Analysis of Data structures & Algorithms, Video Game Design, Object-oriented design, Database Systems

Skills

- **Programming Languages:** Python, Java, Kotlin, Ruby, SQL, Unity (C#), C, Typescript, JavaScript, HTML5
- **Technologies:** Google Cloud Platform (GCP), AWS, Firebase Analytics, Flask, ML Kit, AR Foundation, OpenAI, OpenCV, Git, Heroku, REST, Android Studio, React.js/native, Node.js, d3.js, jQuery, Express, MongoDB, Rechart, Selenium

Experiences

Lead VR Developer, Emory University, Atlanta, GA

May 2023 – Aug 2023

- Planned and developed a novel procedurally generated virtual reality resuscitation simulation using Unity.
- Created a patient model with over 30 inter-connected numerical and categorical variables.

Digital Web Engineer, Herman Miller, Zeeland, MI

May 2022 – Aug 2022

- Led the development to enhance the product configurator on the customer-facing Knoll.com website, significantly reducing the number of prerendered attributes by up to 93% per product.
- The above effort tackles the most frequently used feature on the website and involves full-stack development with React.js and Node.js, transitioning from a previous, inefficient, jQuery implementation.

Junior Software Engineer, MerchLogix, Atlanta, GA

May 2021 – Aug 2021

- Optimized a core part of the CI environment (Jenkins) by 8 seconds using Ruby and Linux CLI following Agile Framework. The modified portion of code is run several hundred times per day, significantly reducing CI time.
- Collaborated with mentor to update software installation and onboarding documents (Jira, Confluence).

Leadership

Taskmaster @ GT (Founder), Georgia Institute of Technology, Atlanta, GA

August 2023 - Current

- Organize watch parties for the Taskmaster UK game show, plan and execute tasks, video editing.

The Hive (Master Peer Instructor), Georgia Institute of Technology, Atlanta, GA

January 2023 - Current

- Teach other peer instructors, students, and faculties at Georgia Tech to work with a variety of equipment in the makerspace, including electronics, crafting, 3d-printing, laser cutting, and woodworking to bring their ideas to life.

Board Game Club (President), Georgia Institute of Technology, Atlanta, GA

January 2022 - Current

- Developed a Discord bot for the club, enabling members to track activities and play games online asynchronously.
- Programmed a game bot in Python with regular expressions, store data with MongoDB, and host on Google Cloud.
- Automate event submission to Georgia Tech's organization platform using Selenium and Pillow in Python, saving approximately 70 minutes of manually generating images and clicking through 20 pages (126 fields) every week.

HackGT 7 & 9 (Instructor and Mentor), Georgia Institute of Technology, Atlanta, GA

October 2021 & 2023

- Collaborated in a 4-person team to operate a workshop for over 100 people on developing Flappy Bird with Unity.
- Mentored multiple teams with code debugging, version control, and application development with ads and billings.

Projects

Hai's Hub (haidao0923.github.io/personal-website) (React.js, Typescript)

(Current)

- An interactive and gamified photo gallery showcasing my interests and simultaneously demonstrate my technical and design skills as the website was developed from scratch.

Glanceable VR (Unity (C#))

(2023)

- Develop a UI system that slides in and out of view depending on the user's head motion. This allows users to access information outside their field of view effortlessly while performing other functions in virtual reality.

GT Web Development Club Advocacy Website (MongoDB, Express, React.js, Node.js, Axios, REST)

(2022)

- Created a user database and implemented secure sign-in functionality.

Techdle (Wordle with web scraped GT courses), Location-based Journal, Random Translator, Image Resizer