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, HTML/CSS
- **Technologies:** React.js, Next.js, Express.js, Svelte.js, Node.js, MongoDB, SQL, React Native, Firebase, Flask, Tailwind, OpenAI, Google Vision, OpenCV, Rest API, Git, Android Studio, d3.js, jQuery, 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 (Full-stack), MillerKnoll, Zeeland, MI   May 2022 – Aug 2022
- Proposed and 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 previously inefficient jQuery implementation.

Junior Software Engineer, MerchLogix, Atlanta, GA   May 2021 – Aug 2021
- Optimized a core part of the CI/CD 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

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 – January 2024
- 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
- Operate a workshop for over 100 people on developing Flappy Bird with Unity.

Projects

Hai's Hub (https://haidao0923.github.io/personal-website) (React.js, Next.js, Typescript)   (Current)
- An interactive and gamified photo and project gallery showcasing my interests. Rate me for a surprise!

GT MobileDev GTWrapped (React Native, Firebase Authentication, Firestore, Google Map API)   (Current)
- Implemented firebase authentication, storage, retrieval, and data analytics for user and location data for an app that track user location and create statistical report of how often Georgia Tech student visit different buildings.

GT WebDev FotoMind (Next.js, Node.js, JavaScript, Google Cloud, Firebase, Tailwind CSS)   (Current)
- A website that utilizes Google Vision API and ChatGPT to intelligently display images matching an input category.

Glanceable VR (Unity (C#))   (2023)
- 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.

Mission Bot (Python, MongoDB, Google Cloud Product, Regular Expressions, Selenium, Pillow)   (2023)
- A bot developed for board game club members to track activities and play asynchronously on social media.

GT WebDev Advocacy Website (React.js, Node.js, MongoDB, Express, Axios, REST)   (2022)
- Implemented the sign in page (full-stack development), a user database, and secure sign-in functionality.