Mingkuan Yan

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EDUCATION

Georgia Institute of Technology   **Atlanta, GA**
Bachelor of Science in Computer Science, GPA 4.00   *Expected Graduation, December 2025*

- **Concentrations:** Intelligence (AI) and Media
- **Relevant Coursework:** Design and Analysis of Algorithms, Computer Architecture, Data Structures and Algorithms, Object-Oriented Programming, Computer Graphics, Computing in Python, Probability and Statistics, Linear Algebra
- **Organizations:** Georgia Tech Varsity Rowing (18 hours and 90km per week), Symphonic Band, Chick fil-A Team Member

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML, CSS (SCSS), Java, C++, C, GLSL, Scheme
Tools: Next.js, React.js, Angular, React Native, Node.js, Prisma, PostgreSQL, Firebase, Bootstrap, Tailwind, Bash, Git, Figma, ArcGIS

EXPERIENCE

Ensemble (ensemblesocialmusic.com) | **Head Web Developer**   *October 2023 – May 2024*

- Co-developed a social music platform with **1K+ users** for musicians to effortlessly collaborate and remix music.
- Spearheaded Ensemble Studio, the responsive desktop version of the platform, using **Angular**, **TypeScript**, **HTML**, and **SCSS**.
- Created 20 mockups in **Figma** for key features, including the feed, profile page, and Bandboards, with light and dark modes.
- Architected the user profile page from scratch, integrating **Angular Material UI** elements like dialogs and sliders.
- Built the digital audio workstation for mobile and desktop, allowing for multitrack recording and remixing.
- Self-learned Angular and TypeScript in 2 weeks, enabling the team to meet the alpha testing deadline within 4 months.
- Refactored a **40K+ line codebase** by modularizing code and adding JSDocs, reducing code reading time by 70%.

Chick-fil-A | **Front of House Team Member**   *January 2023 – May 2023*

- Received orders accurately and attentively as a cashier with genuine kindness that adds a sparkle to every customer's day
- Swiftly mastered a variety of front-of-house skills from mixing milkshakes to operating the registers

PROJECTS

Gravl (gravl.org) | Next.js, Python, TypeScript, HTML, SCSS, Google Maps API, PostgreSQL, Prisma   *August 2022 - Present*

- Created a full-stack travel website using **Next.js**, allowing users to track and share their travels with friends.
- Engineered a **PostgreSQL** database using **Prisma**, ensuring streamlined and efficient data management for user and trip details, while integrating **AWS S3** for storing and managing profile images.
- Designed and implemented engaging **CSS** animations with **React** libraries to visually showcase user travels on diverse maps, including detailed U.S. county, state, country, and national park visuals; incorporates React Hooks to animate user progress.
- Streamlined user authentication with **Google OAuth**, guiding new users through a modal-driven onboarding process.
- Developed a mobile version with **React Native**, incorporating **iPhone Core Location** to automatically track travels, and integrated **Google Maps API** Directions Service for route generation without infringing on privacy.

Netwark @ MIT Reality Hack (github.io/network) | JavaScript, HTML, CSS, Firebase, Figma   *January 2024*

- Crafted an augmented reality-powered networking assistant integrating facial recognition for seamless team formation.
- Engineered an aesthetic UI with **CSS** glitch effects, enabling users to input networking interests directly to **Firebase**.

Bite @ HackMIT | React.js, JavaScript, HTML, CSS, Node.js, Fetch API, Python, Flask   *September 2023*

- Built a full-stack intelligent wearable accessory that tracks daily nutritional intake with a flick of the wrist within 24 hours.
- Developed an immersive UI using **HTML**, **CSS**, and **React**, leveraging the **Fetch API** to integrate computer vision from the **Log Meal API**, user health data from **Flask**, and personal nutrition feedback powered by **GPT-3.5**.

GeoSurfer Chrome Extension | JavaScript, HTML, SCSS, Fetch API, Firebase   *December 2023 - Present*

- Crafted and launched a **Chrome extension** that meticulously tracks how much time users spend browsing Google Maps.

AWARDS

HackMIT Terra $2K Award: Awarded 1st Place by the developer-to-developer startup, Terra, for utilizing their health-tracking API in our intelligent smartwatch, allowing us to enhance the user experience by pairing calorie data with our computer vision model.

USACO Silver: Earned after months of regular practice on competitive coding platforms to perfect algorithmic coding skills.

Eagle Scout: Awarded the rank of Gold Palm after earning 33 merit badges, serving 3 terms on the Troop 31 council, portaging a mile with a 70 lb backpack on the Canadian border, and leading a team to sew 7,029 masks for pediatric patients as my Eagle Project.