

# 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](https://ensemblesocialmusic.com)) | Software Engineer (UI/UX Lead)

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%.

### Sideline ([sideline.team](https://sideline.team)) | Software Engineer

January 2024 – May 2024

- Created an all-in-one AI-backed video search platform for sports recruiting and officiating.
- Demoed to **17 colleges**: 7 D1, 3 D2, 5 D3, and 2 NAIA; Received valuable customer discovery input to pivot accordingly.
- Developed a scalable front-end using **React.js** and **TypeScript**, ensuring modularity for seamless testing and pitching needs.

### 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](https://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.

### Network @ MIT Reality Hack ([github.io/network](https://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**.

### 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 2024 – 1st Place Most Technically Impressive Award** (Telepathy): A non-invasive, fully private silent speech interface.

**HackMIT 2023 – 1st Place TerraAPI Award** (Bite): A full-stack, computer vision powered watch that tracks daily nutritional intake.

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

**Eagle Scout:** Awarded after 33 merit badges, 3 leadership terms, canoeing 95 miles, and sewing 7,029 masks for pediatric patients.