

# Katharine (Katie) Wang

470-557-5534 | [katharinewang23@gmail.com](mailto:katharinewang23@gmail.com)

## EDUCATION

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### Georgia Institute of Technology

*Bachelor of Science in Computer Science — GPA: 4.00*

Atlanta, GA

Aug. 2023 – May 2026

### Peachtree Ridge High School

*Salutatorian*

Suwanee, GA

Aug. 2019 – May 2023

## EXPERIENCE

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### FIRST Robotics Team

*Captain/Programming Lead/Drive Team Technician/Member*

Aug. 2019 – May 2023

- Developed a custom state machine framework to better organize code
- Learned to read documentation, implement closed-loop feedback, apply vision tracking with April Tags and Limelight, write clean code, use GitHub pull requests and issues
- At regional competitions, won Innovation In Control Award in 2022 and 2023, Autonomous Award in 2023

### Viasat, Inc.

*Intern*

Sep. 2022 – Dec. 2022

- Completed introductory tutorials on SOLIDWORKS
- 3D printed self-designed CAD model of prime focus feed
- Observed antenna design and satellite tracking

### CodeHers Collective

*Content Lead/Instructor/Volunteer*

May 2019 – May 2023

- Managed the creation of 7 lessons about various coding languages and computer science concepts over 150 volunteer hours
- Personally instructed over 100 middle and high-school girls virtually
- Led in-person web development summer camp for 10 middle-school girls in the metro-Atlanta area
- Co-organized CodeHers hackathon with workshops for 100 girls to create games, apps, and websites

## PROJECTS

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### EnviroMap | *React Native, TypeScript, Expo, npm, FireBase, Google Cloud Platform*

Dec. 2020 – Feb. 2021

- Developed a gamified Expo mobile app to calculate carbon footprint and offset emissions by trading carbon credits
- Implemented Firebase authentication and data storage
- Used Google Maps API, React Native Geocoding, and React Native Maps Directions to calculate distance driven, then plug into researched EPA formula for deriving emissions
- Won 1st place in Systems Software Category with 500 dollar grant at regional competition

### Mindful | *HTML/CSS/JS, npm, Dialogflow, Mapbox, Google Translate API, Repl.it*

June 2021

- Co-developed a mental health website at Kode With Klossy summer camp to combat post-pandemic anxiety
- Included animations, music, translations, journaling, chatbot, and nearby mental health services feature

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, HTML/CSS

**Frameworks:** React Native, Next.js

**Developer Tools:** Git, Google Cloud Platform, Expo, npm, VS Code, Eclipse

**Libraries:** NumPy, React.js

**Completed Coursework:** AP Calculus BC, Linear Algebra, Multivariable Calculus, Introduction to Computing