Katharine (Katie) Wang

470-557-5534 | katharinewang23@gmail.com

EDUCATION

Georgia Institute of Technology — Atlanta, GA
Bachelor of Science in Computer Science — GPA: 4.00 — Aug. 2023 – May 2027

Peachtree Ridge High School — Suwanee, GA
Salutatorian — Aug. 2019 – May 2023

EXPERIENCE

FIRST Robotics Team — Aug. 2019 – May 2023
Captain/Programming Lead/Drive Team Technician/Member
- 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
- Volunteered with Georgia FIRST website redesign team; utilized Next.Js to prototype, presented to Board of Directors weekly; implemented current website

Viasat, Inc. — Sep. 2022 – Dec. 2022
Intern
- Completed introductory tutorials on SOLIDWORKS
- 3D printed self-designed CAD model of prime focus feed
- Observed antenna design and satellite tracking

CodeHers Collective — May 2019 – May 2023
Content Lead/Instructor/Volunteer
- Managed the creation of 7 lessons about various coding languages and computer science concepts over 150 volunteer hours
- 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 over 150 girls to create games, apps, and websites

PROJECTS

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

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
Current Courses: Honors Introduction to Discrete Math, Introduction to Object Oriented Programming, Introductory Physics, General Psychology