Ganning Xu

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I'm a $25k Taco Bell Live Más Scholar and HackGT hackathon winner (out of 2000 students). I've built an app that generates Spotify playlists from a selfie, a study timer Chrome extension, and websites for Georgia Tech students. Experience with Java, Python, JavaScript, C. Passionate about software engineering to benefit others.

EDUCATION

Georgia Institute of Technology — Atlanta, GA
B.S. Computer Science (Honors) — *May 2026 (expected)*
Concentration: Systems & Architecture, Information Internetworks
GPA: 4.0/4.0 • Computer Architecture, Data Structures, Algorithms, Objects & Design, Databases, Systems & Networks, Object-Oriented Programming, Multivariable Calculus, Discrete Math

EXPERIENCE

Undergraduate Teaching Assistant — Aug 2024 – Present
Georgia Tech College of Computing — *Atlanta, GA*
- Instruct **50+ students** in weekly labs on **digital logic, LC-3 assembly, and C programming**.
- Facilitate debugging and provide technical guidance during weekly **office hours for 900 students**.
- Design and evaluate **assignments, quizzes, and lab exercises** to ensure student comprehension.

Director of Technology — Jan 2024 – Present
HexLabs — *Atlanta, GA*
- **Manage 15 members** to develop all software needed for **HackGT, Georgia Tech's annual hackathon**
- Created **full-stack web and mobile applications** for HackGT, impacting **3,000+ students annually**
- Developed HackGT 11 website with **React.js, Express.js, MongoDB**, successfully engaging 2,000+ participants

Software Engineering Intern — June 2024 – Aug 2024
Fidelity Investments — *Durham, NC*
- Developed APIs for Brokerage Technology using **Java, Spring Boot, TypeScript** to streamline processes.
- Achieved **90%+ code coverage** across **318 unit and integration tests** using **JUnit, Mockito, Jest**.
- Addressed **99% of code quality issues**, leading to increased performance and maintainability.

Software Engineering Intern — May 2024 – Aug 2024
Apache Software Foundation (Google Summer of Code) — *Remote*
- Developed and published **2 desktop applications** to manage **thousands of jobs** running on supercomputers.
- Used by **300+ researchers** at PEARC 24 conference and 61st Workshop on Computational Biophysics.
- Built authentication portal for **NASA (IMPACT)** using **React.js, OIDC, HTTP REST**.

PROJECTS

Focale - Study Pal | *JavaScript, Chrome API* — June 2021 – Jul 2022
- **1000 weekly users** on the Chrome web store (**5 star avg. review**).
- Developed a **study timer Chrome Extension** that blocks distracting websites and tracks total time studied.

GT Academic Calendars | *React Native, Express, MongoDB* — Aug 2024 - Present
- Used by **5,000 students each semester**.
- Developed web app to view & export Georgia Tech's academic calendars across all current and future semesters.

Georgia Tech Club Explorer | *MongoDB, React.js, Next.js, Vercel* — Aug 2023 - Dec 2023
- **Directed team of 8 students** to develop full-stack web app to browse student organizations at Georgia Tech.
- Integrated dynamic user submissions, enabling all students to contribute and showcase their clubs.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, Assembly, MySQL, TypeScript, HTML, CSS, Kotlin, Bash, Scripting
Frameworks: React.js, Node.js, Express.js, Next.js, AngularJS, Electron.js, Spring, Springboot, REST API, Kotlin, JUnit, Mockito, Chakra UI, Tailwind, pandas, NumPy, Matplotlib, TensorFlow, scikit-learn
Tools: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform, MongoDB, Firebase, Docker, GitHub