

# Ganning Xu

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## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science in Computer Science, Honors Program*

Aug 2023 – May 2026 (expected)

**Relevant Coursework:** Data Structures and Algorithms, Objects & Design, Computer Organization & Programming.

## EXPERIENCE

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### Software Engineering Intern

June 2024 – Aug 2024

*Fidelity Investments*

Durham, NC

- Building Fidelity Brokerage Technology's APIs for an internal tool using Java and Springboot.
- Achieved 90%+ unit test coverage on all APIs by writing 80 unit test cases using JUnit and Mockito.
- Cleaned up 99%, or 223 code quality issues, resulting in a cleaner and more maintainable codebase.

### Software Engineering Intern

May 2024 – Aug 2024

*Apache Software Foundation (Google Summer of Code)*

Remote

- Developed desktop application to manage file transfers and jobs running on supercomputers.
- Presented demo at 61st Workshop on Computational Biophysics and PEARC 24 conference. 100 users total.
- Integrated Jupyter Notebooks, VNC client, and Dockerized containers into Electron.js application.

### Software Developer Intern

June 2023 – Aug 2023

*iRODS*

Chapel Hill, NC

- Used React.js + REST to upgrade Zone Management Tool, allowing admins to control zones, servers, users, tickets
- Developed 8 new health checks, 2 new pages, 16 new features in ZMT, resulting in 20 closed issues in ZMT.
- Built support for restarting NFSRODS without re-mounting docker container. Utilized Java, Jargon, and NFSv4.1.

### Teaching Assistant

Aug 2024 – Present

*Georgia Tech College of Computing*

Atlanta, GA

- TA for CS 2110 - Computer Organization and Programming.
- Lead weekly labs to teach students circuits, LC-3 assembly, and C
- Host office hours to assist in debugging & grade homeworks and quizzes.

## PROJECTS

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### Focale - Study Pal | *JavaScript, Chrome API, HTML/CSS*

June 2021 – Present

- Developed a Chrome Extension that blocks distracting websites, tracks total time studied, and offers study timers.
- Implemented customizable color themes, intelligent timer presets, and motivational notifications.
- 1000 weekly users on the Chrome web store (5 star avg. review).

### UNC-W Wang Lab Website | *React.js, Next.js, Chakra UI, Git*

Jan 2022 – May 2022

- Developed a website for a biochemistry lab at the University of North Carolina at Wilmington.
- Optimized SEO to achieve #1 rank on Google when searching for "The Wang Lab"
- Wrote 12-pages of technical documentation to allow anyone to easily edit site content from JSON-files.

### Calendo – Gamified To-do List | *React.js, Next.js, MongoDB*

Oct 2023 – Nov 2023

- Developed a gamified to-do list built for school systems, allowing teachers to push "tasks" to students, and students to "compete" with each other to complete more tasks.
- Won the Education Track at HackGT X, Georgia Tech's annual hackathon.

## AWARDS

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2023/24 Live Más Scholar, HackGT X Education Track Winner, 2023 Regeneron Science Talent Search Scholar

## TECHNICAL SKILLS

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

**Frameworks:** React.js, Next.js, Electron.js, Node.js, JUnit, Mockito, Chakra UI, Tailwind, pandas, NumPy, Matplotlib

**Developer Tools:** Git, GitHub, GitHub Actions, Docker, Azure, Firebase, MongoDB, VS Code, IntelliJ