

Ganning Xu

EXPERIENCE

iRODS, Software Developer Intern (Jun - Aug '23)

- Utilized **React.js** + **HTTP REST** to upgrade Zone Management Tool (ZMT)
- Developed 8 new health checks, 2 new pages, 16 new features in ZMT
- Worked on NFSRODS (v2.1.1) and Jargon w/**Java** & NFSv4.1 protocol

Bit Project, Co-Director of Engineering (Jul '21 - Apr '23)

- Co-developed CounselorBot (60 users), a bot designed to guide students through any GitHub-based curriculum (6 mentors, 10 students)
- Hosted Serverless Conference, Hackathon, Camp (**Node.js** & **Azure**)
- Created AWS Lambda workshop for 75+ people at 2021 Serverless Days

North Carolina State University, Research Intern (Jan - Dec '22)

- Researched "Identifying Provocative Sentences from Fearful WhatsApp Messages" under Dr. Munindar Singh; (**Python**, **TensorFlow**, **HuggingFace**)
- Produced 7k-sentence annotated dataset of provocative sentences
- Trained 18 transformer (99% acc.) & non-transformer models (81% acc.)

NC Department of Public Instruction, Web Developer (Jan-May '22)

- Led a team of 5 high school students to develop the #IAmCS NC Summit website (**React.js**, **Next.js**, and **Chakra UI**)
- Developed custom newsletter subscription system w/**Google Sheets API**
- Led weekly design sprints & team meetings

EDUCATION

Georgia Institute of Technology (B.S. Computer Science) — 2026 Grad.

Groups: Honors Program, WebDev Club Officer, iOS Club, Google DSC

Courses: Data Structures & Algorithms, Object Oriented Programming, Linear Algebra, Physics I

North Carolina School of Science and Math — High School Diploma

SAT: 1560 **GPA:** 4.00 (unweighted), 5.00 (weighted)

Courses: Research in Computational Science, Data Structures with C, Adv. Java, Graph Theory, Multivariable Calc, Adv. Data Science, AP CSA

PROJECTS

Focale - Study Timer Chrome Extension

Created a Chrome Extension that blocks distracting websites, tracks total time studied, and offers preset study timers. 1000+ active weekly users.

UniHeart - Heart Disease Prediction Web App

Trained 2 random forest models for heart disease prediction with 61% and 85% accuracy. Built with Python, React.js, Next.js, TensorFlow.js.

Freelance Web Development

Built websites for UNC-Wilmington Wang Lab, American Computer Science League, Durham Meals on Wheels, Valence Robotics.

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TECHNICAL SKILLS

JavaScript, Python, Java, C, React.js, Next.js, Node.js, Express.js, MongoDB, PostgreSQL, Azure, AWS, Docker, GitHub, GitHub Actions, Bash

SOFT SKILLS

Creativity, Teamwork, Innovation, Project Management, Leadership

AWARDS

2023 Taco Bell Live Más Scholar (\$25k)

2023 Regeneron STS Scholar

2023 Coca-Cola Scholars Finalist

2023 National Security Language Initiative (NSLI-Y) Turkish Finalist

2022 Coolidge Senator (\$1k)

2022 HiMCM Outstanding Winner

2022 NCSF National Cyber Scholar

2021 Bit Project Scholarship (\$1.5k)

President's Volunteer Service Award

1st @ Congressional App Challenge

1st @ UniHacks Hackathon

1st @ GYEC Challenge

2nd @ Ready, Set, App '22 & LingHacks

'22 & NC Education Datathon '22

State Winners & Honorable Mention

@ Samsung Solve For Tomorrow

TSA States: 1st @ Webmaster; 1st @ Coding; 2nd @ Cybersecurity; 3rd @ Software Development

RESEARCH

1. Identifying Provocative Sentences
2. Sentiment Analysis on OUD
3. DNA Fingerprinting Public Opinion

CLASSES TAUGHT (High School)

Adv. Web Dev: React.js, Next.js, DBs

Data Sci. Research: NumPy, ML, Keras

Neural Networks: ML methods, CNNs, Generative Networks, NLP