



Ganning Xu

Web Developer, Software Engineer

Morrisville, NC

December 06, 2004

xu23g@ncssm.edu

9195279302

ganning.me

[ganningxu](https://www.linkedin.com/in/ganningxu)

[ganning127](https://github.com/ganning127)

SKILLS

Python	React.js & React Native	JavaScript	Bootstrap
Tailwind CSS	Chakra UI	Next.js	C
Azure Functions	Hasura PostgreSQL	Git & GitHub	Node.js
Java	AWS Lambda	SASS	Linux

WORK EXPERIENCE

Verste
Co-Founder

By creating simplified versions of research papers, we provide a stepping stone for high school students and undergraduate researchers to read their first research papers. At the same time, researchers who've read plenty of papers in their careers are provided with a consistent experience that allows them to comprehend the key points of a research paper in a fast and efficient manner.

<https://verste.org>

Bit Project
Director of Engineering

- Created an AWS Lambda workshop shown to 75+ attendees at the 2021 Serverless Student Edition Conference.
- Developed the Intro to JavaScript and GitHub course that uses CounselorBot to guide students through learning one of the world's most popular programming languages and source control platforms.
- Designed and built the Bit Project website using React.js and Next.js.

<https://www.bitproject.org>

The Coding Foundation
Director of Web Development

- Leading a team of 13 Web Development Interns to create the website for The Coding Foundation, a nonprofit organization helping students learn how to code.
- Spearheaded projects for the website, including a blog, dark mode toggle, animations, CI/CD pipelines, and component creation.
- Facilitated weekly stand-ups for interns to check in on progress and answer questions.

<http://thecodingfoundation.org>

North Carolina Department of Public Instruction
Lead Web Developer

- Developed the #IAMCS Summit website using React.js, Next.js, and Chakra UI
- Implemented a mailing list subscriber system using Google Cloud Console and the Google Sheets API
- Lead the web development workshop at the #IAMCS Summit for 100+ participants

University of North Carolina at Chapel Hill
HEAL Team Intern

- Used Python, the Twitter API, NLP, and machine learning to analyze the relationship between the sentiment of tweets about addiction and getting help from addiction
- Compiled a database of 11,800 publically available tweets, each either relating to getting help for opioid treatment or about being addicted to opioids
- Results:** The public generally has a more positive sentiment when communicating their opinions about opioid treatment, but a negative sentiment when talking about opioid addiction or using opioids for pain

Oppti
Business Development Intern

- Developed a Python script using the Instagram and Google Sheets API to get social media analytics and populate them onto a Google Sheet.
- Used Google Sheets (formulas, functions, pivot tables, charts) for data analysis of A/B testing.
- Director of the Professional Development Panel: A webinar where students from across the United States are welcome to come on a Zoom call with professionals from various industries and ask questions. I am responsible for the outreach, planning, and marketing aspects of this event.
- Researched and implemented a social media campaign which led to a 627% increase in reach.

EDUCATION

Panther Creek High School (August 19, 2019 - June 11, 2021)
Computer Science

GPA: 4.5, **Clubs:** • Co-Founder of Panther Creek Aviation Club • Webmaster of Key Club • Varsity Swimmer, Regionals swimmer • Programming Club • Project Unify • Science Olympiad

North Carolina School of Science and Mathematics (August 10, 2021 - Present)
Computer Science 12

GPA: 5.0, **Clubs:** • Co-Founder - NCSSM CyberUnicorns • Co-Founder - NCSSM Software Development Club • Computer Science Club • Machine Learning Club • FIRST Robotics Competition • Student Government (Outreach) • NCSSM Rocketry • Code4Charity • Technology Student Association (TSA) • Asian Student Association (ASA) • Varsity State Swimmer

PROJECTS

#IAMCS Website
Built the website for #IAMCS, NC-wide effort providing students exposure to computer science and STEM careers.

<https://iamcs-website.vercel.app>

The Coding Foundation Website
Built the website of The Coding Foundation, a non-profit organization that provides coding lessons to students.

<https://tcf-website.vercel.app>

Bit Project Website
Built the website for Bit Project, a 501(c)(3) non-profit organization that provides free mentorship programs to students.

<https://www.bitproject.org>

Durham Meals on Wheels 2021 Report Website
Built the 2021 report website for Durham Meals on Wheels, showcasing the impact of their charity work.

<https://big-data-big-impacts-ncssm.github.io/meals-on-wheels/>

Discord Word Bot
Word bot is a bot that can define words, search google, draw ASCII art, and make funny insults!

<https://github.com/ganning127/discord-word-bot>

Augmented Hashmap
Created a Hashmap in C that is able to store any data type and uses an AVL tree for each "bucket".

<https://github.com/ganning127/augmented-hashmap>

Valence Robotics Website (FRC Team #8429)
Developed the Valence Robotics website (FRC Team #8429), a non-profit FIRST robotics team in its first year.

<https://valencerobotics.org>

AWS Lambda Workshop: Web App Using Serverless
Created an AWS workshop that was presented at the 2021 Serverless Days Student Edition conference. The workshop was designed to teach students how to use AWS Lambda.

<https://www.youtube.com/watch?v=L1BhV-dtMk&t=7752s>

CounselorBot
Helped develop the serverless version of CounselorBot, a GitHub bot that autonomously guides students through GitHub learning repositories.

<https://github.com/bitprj/counselor>

LiveTranslate
A web app that makes translation easier. Live Translate can translate from English into 6 different languages, in real-time!

<https://github.com/ganning127/translate-azure>

Spotion
An intelligent web app that allows you to take a live picture and get back a playlist and song recommendation based on your detected emotion.

<https://github.com/ganning127/spotion-ai>

EnviroHelp
With EnviroHelp, users can upload a picture of a waste item and get whether or not it is recyclable!

<https://github.com/ganning127/envirohelp>

Focale - Study Pal
Focale - Study Pal is a chrome extension designed to help students study more efficiently and focus on their assignments. Currently, there are 1000+ users across 43 countries.

<https://chrome.google.com/webstore/detail/focale-study-pal/khjiddpidalladedmkjibjkklanhcnc>

MaskUp
MaskUp allows stores and organizations to check the mask status of their users. Features include a login system, live & group mask detection, symptom checking, and data visualization statistics.

<https://easybag98.qoom.space/~MaskUp>

Weathery
A clean and easy-to-use weather website. No ads, no spam, just current and hourly weather forecasts.

<https://github.com/ganning127/weathery>

Covid-19 Tracker
Programmed a COVID-19 web scraping tracker using Python3 and Google Spreadsheet API. Users are able to fill out a google form and will automatically be added to the recipient list. Currently, about 12 students and teachers across Wake County use this service.

https://github.com/ganning127/covid_19_tracker

Meke
Meke is an app designed to help students in elementary school learn math in a fun and engaging way.

<https://bit.ly/mekestemfair>

AWARDS

National Cyber Scholar (May 01, 2022)
National Cyber Scholarship Foundation
Top 1000 students in the CyberStart program.
Awarded a scholarship to cover the SANS Foundations course and one attempt at the GIAC Foundational Cybersecurity Technologies (GFACT) certification.

Coolidge Senator (May 01, 2022)
Calvin Coolidge Presidential Foundation
The Coolidge Senators Program recognizes one hundred top Coolidge Scholarship applicants who demonstrate exceptional academic accomplishments and show a special interest in Calvin Coolidge.

TSA States Awards (April 01, 2022)
Technology Student Association (TSA)
1st Place - TSA Webmaster 1st Place - TSA Coding 2nd Place - TSA Cybersecurity 3rd Place - TSA Software Development

State Winners (March 01, 2022)
Samsung Solve for Tomorrow
Created ReFridge, a mobile app that tracks expiration dates in a user's fridge and recommends recipes with those items.

1st Place (February 01, 2022)
UniHacks
36-hour school-wide hackathon. Created UniHeart, a web app that predicts heart disease with up to 85% accuracy.

1st Place (September 01, 2021)
Congressional App Challenge
Created SLTranslate, a mobile app that uses machine learning to translate from American Sign Language (ASL) to English. **Press Release**

Scholarship (July 01, 2021)
Bit Project

Wake County STEM Fair Awards (May 01, 2021)
Wake County Public School System
1st Place - Create an app (Meke) 2nd Place - App Mockup

2nd Place (March 01, 2021)
Research Triangle High School Hackathon

2nd Place (May 01, 2022)
North Carolina Education Datathon
NC-wide datathon aimed at creating solutions to the digital divide.

2nd Place (May 01, 2022)
Ready, Set, Ap
NC-wide hackathon in which students created apps to address problems in their local communities.

LANGUAGES

Chinese Native proficiency ●●●●●●	English Native proficiency ●●●●●●	Spanish Limited working proficiency ●○○○○○
--	--	---