Nicolas Zhang

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EDUCATION

University of North Carolina at Chapel Hill | **Chapel Hill, NC**

B.S. in Computer Science | **B.S. in Statistics and Analytics**   **May 2025**

GPA: 4.0/4.0

Relevant Courses: Data Structures, Foundations of Programming, Discrete Math, Multivariable Calculus, Intro to Data Models and Inference. **In Progress**: Linear Algebra, Methods of Data Analysis.

TECHNICAL SKILLS

Programming Languages: Java, Javascript, TypeScript (Beginner), Python (Beginner).

Tech/Tools: React, Next.js, Supabase, Tailwind CSS, Node.js, Stripe, Git, HTML, CSS.

PROJECTS

Portfolio Website | **Personal Project**   **Oct 2023**

- Created a multi-page personal portfolio website with a dynamic **React-based** frontend and incorporation of an **API** using Next.js's API routing.

Spotify Clone | **Personal Project**   **Dec 2023**

- Created a fully-functional Spotify clone in **TypeScript** using Next.js with a dynamic **React-based** frontend, a UI styled with **Tailwind CSS**, a relational database created with **Supabase** that handles authentication/storage/backend data, a **Stripe** integration to handle subscription/payment, and full responsiveness across devices.

Agriculture Simulator | **HackNC Project**   **Oct 2023**

- Created an agricultural water usage calculator with a team of 3 people that outputs the estimated water usage for the input crop type and land area. Built in vanilla HTML, CSS, and JavaScript.
- Responsible for the entire UI and parts of the backend.

EXPERIENCES AND INVOLVEMENTS

Physics Intructional Assistant | **UNC-Chapel Hill**   **Aug 2023 - Present**

- Set up lab demonstrations for introductory physics courses, devised new lab demonstrations and improved existing lab demonstrations through the use of tools such as 3D printers, laser cutters, etc. Paid.

Education / Project team member | **UNC CS+Social Good**   **Aug 2023 - Present**

- Learned front-end and back-end development skills such as HTML, CSS, JavaScript, and frameworks such as React and Next.js.
- Scheduled to join the project team in the Spring 24' semester to build impactful web projects that will improve the condition of local communities.

Learning / Development team member | **Development Society at UNC**   **Aug 2023 - Present**

- Learned traditional web technologies like HTML, CSS, JavaScript, and popular industry frameworks like React and Node.js.
- Scheduled to join the development team in the Spring 24' semester.

Research Intern | **NC State Univerisity**   **June 2022 - Jan 2023**

- Researched at the Micro/Nano Engineering Lab under Dr. Xiaoning Jiang. Assisted group research project on real-time clot detection for sonothrombolysis catheter by performing lab procedures and data entry. Conducted individual research on helical magnetic field generation.