

# George Harris

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## EDUCATION

### University of North Carolina - Chapel Hill

Chapel Hill, NC

*Bachelor of Science in Computer Science, Minor in Statistics, Shuford Program in Entrepreneurship*

*Aug. 2022 – May 2026*

**Coursework:** Computer Organization and Architecture, Data Structures, Foundations of Programming, Algorithms & Analysis, Discrete Mathematics, Mathematics for Data Science, Calculus of Functions (I & II) – GPA: 3.84 / 4.0

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C, C++, JavaScript, HTML/CSS, Typescript

**Frameworks:** React, Node.JS, Redux, Next.JS, TensorFlow, Keras, Tailwind CSS, Firebase, MongoDB

**Developer Tools/Technologies:** Git, Docker, Linux, AWS EC2, VS Code, IntelliJ, Jupyter, VIM, Arduino

**Libraries:** Pandas, NumPy, Matplotlib, SKLearn

**Online Courses:** AWS Skill Builder (08/2023 - Present), Introduction to Java Programming (May 2022 - Aug 2022) AI For Everyone (May 2022 - Aug 2022)

## EXPERIENCE

### Undergraduate Research Assistant

Dec 2023 – Present

*University of North Carolina*

*Chapel Hill, NC*

- Worked under Prof. Shahriar Nirjon and graduate researchers to complete tasks from data collection, cleaning, and visualization to developing Machine Learning models.
- Researched embedded AI systems for medical applications.

### Full Stack Web Development Intern

May 2023 – Aug 2023

*TradePending*

*Remote/Carrboro, NC*

- Developed a feature-rich React and Typescript application with Redux Toolkit for state management.
- Implemented RESTful RTK Query APIs to communicate with a MongoDB back end.
- Built various pages including user management, billing/contracts management, user settings, help, and more
- Optimized API to prevent excess data transfer and reduce Heroku server load of user management system by 23%, implemented secure user authorization, and built dynamic menus for different permissions.

## PROJECTS

### Compass Center Chapel Hill Website | *React, Typescript, Next.JS, Firebase, Github*

Aug 2023 – Dec 2023

- Led a team of 4 as lead full stack developer to build a React resource page for the Compass Center, a community organization in Chapel Hill, creating a faster onboarding process for volunteers and a more streamlined user experience.
- Features included role validation, tabular information display, and admin interface for user editing and management.
- Built using React, Typescript, Next.JS, with a simple API to pull information from Firebase.

### GeorgeHarris.tech | *React, Typescript, Next.JS, Tailwind CSS, Figma*

Sept 2023 – Present

- Built personal portfolio website with React and Typescript using Next.JS with Tailwind CSS.
- Implemented various features from dynamic routing to Spotify embeds, employed Agile web design methodologies.

### RiceSavers – HackNC 2022 Project | *Python, Jupyter, HTML, Javascript, Keras, TensorFlow, Yarn*

Nov 2022

- Built a simple HTML and JavaScript frontend with image submission, linked with ML Model.
- Worked with a teammate to develop, train, and deploy a simple TensorFlow and Keras computer vision model to detect disease in locally uploaded images of rice crops to label diseases that may be present.
- Awarded Best Junior Hack 2022.

## LEADERSHIP

### Founding Analyst

Aug 2023 – Present

*Biokind Analytics – University of North Carolina*

*Chapel Hill, NC*

- Worked alongside other founders to develop the UNC Chapter of Biokind Analytics, a nonprofit dedicated to using data science and analytics to draw insights for healthcare partners.
- Used Pandas, Numpy, Matplotlib, and SKLearn to create data visualizations, run statistical operations, and create models to discover actionable strategies for clients.

### General Staff Member

Aug 2022 – Present

*UNC Undergraduate Student Government*

*Chapel Hill, NC*

- Worked in various departments of the executive branch managing projects including social media campaigns, creation of link trees to distribute information to constituents, and developing student experience policy.

### Education Team TA

Jan 2023 – Present

*CS + Social Good UNC*

*Chapel Hill, NC*

- Member of Exec Board for UNC CS+SG, serving as Education Team TA. Taught other students web development from scratch on a Next.js, Supabase, and Typescript framework. Planned events and optimized new member training.