

# Kate Bailey

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## EDUCATION

**University of North Carolina at Chapel Hill** | Chapel Hill, NC May 2026

*Bachelor of Arts in Computer Science; Bachelor of Arts in Philosophy; minor in Public Policy*

- Honors Carolina student: highly selective academic program admitting 10% of each incoming class
- Fellow at the Parr Center for Ethics: UNC's center for ethical discussion on campus and beyond

## EXPERIENCE

**Software Development Intern** | **SAS** | Cary, NC May 2024–Aug. 2024

- Wrote **Python** scripts to validate large-scale source-code migrations from older version control system to **Git** as member of source management team
- Created, updated, and ran **Jenkins** jobs to automate Git migrations per developer requests
- Worked on feature upgrades and bug fixes for internal, developer-facing site using **PHP** and **MySQL**

**Teaching Assistant** | **UNC Computer Science Department** | Chapel Hill, NC Aug. 2023–present

- Tutor students in UNC's introductory programming course, which enrolls 650+ students per semester
- Work one-on-one with students in office hours, explaining fundamental **Python** programming concepts and providing guidance on class assignments

**Data Editor** | **The Daily Tar Heel** | Chapel Hill, NC Dec. 2023–May 2024

*UNC's nonprofit student newspaper, covering university, local, and state news*

- Jointly led the DTH's data desk, managing 15 staffers and working with editors across the newsroom
- Edited staffers' data visualizations for accuracy, design, and accessibility; communicated with other desks' editors to ensure articles clearly represent findings from data
- Created data visualizations for website and print paper using **Python**, Excel, and GIS

## COMMUNITY INVOLVEMENT

**WXYC 89.3 FM** | Chapel Hill, NC Jan. 2023–present

*UNC's college radio station, broadcasting live 24/7*

- As disc jockey, host biweekly 3-hour music show; select releases from vast station library to create diverse yet coherent show, emphasizing similarities between seemingly disparate types of music
- Programmed parts of WXYC's new Android mobile app using **Kotlin**, including the app's "about us" and contact section; collaborated on development and design as member of 3-person app team

## PROJECTS

**WXYC Library Genre Analysis** 2023

- Co-coordinated project which aimed to analyze the genre variety of WXYC's physical library
- As project's technical lead, wrote **Python** script to process 62K-item database of library releases, using an **API** to source genres for each release from an online music catalog
- Presented findings to entire DJ body and writing detailed report; provided suggestions to station management on how to improve genre variety to meet WXYC's goal of freeform programming

## SKILLS & RELEVANT COURSEWORK

**Programming languages:** Python, Java, Kotlin, JavaScript, C

**Tools & technologies:** HTML/CSS, React, Angular, SQL, Git/GitHub, Docker, Tableau, ArcGIS, Jenkins

**Relevant coursework:** Data Structures and Analysis, Discrete Mathematics, Object-oriented Programming

**Affiliation:** Rewriting The Code