

Tony Bird

281 Raleigh St, Chapel Hill, NC 27514
tonybird@live.unc.edu • (828) 712-0464 • antoniobird.com

EDUCATION

University of North Carolina at Chapel Hill

May 2020

B.S. in Computer Science, second major in Music

Major GPA: 4.0, Cumulative GPA: 3.72

Honors: Dean's List- Fall 2016, Spring 2017, Fall 2017

Honors Carolina- Highly competitive academic program enrolling 10% of each class

HONORS

UNC Summer Study Abroad Fellowship | Dublin, Ireland

Summer 2017

- \$5000 fellowship offered to up to 40 students per year
- Completed a rigorous, immersive study of Irish culture and Celtic mythology

UNC Geology Dept. Wheeler Grant / UNC Office of Undergraduate Research Travel Award

May 2017

- \$1500 combined funding for undergraduate research and presentation

Adler Scholarship in Music | Chapel Hill, NC

August 2016-May 2020

- Departmental audition-based scholarship awarded to ~5 students per year

PROJECTS

Attendance System | Asheville Symphony Chorus | Asheville, NC

December 2017

- Created online attendance log with **PHP** and stored member data in **MySQL** databases
- Designed front-end for section leaders to record absences using **HTML**, **CSS**, and **JavaScript**

Image Editor | Foundations of Programming class | Chapel Hill, NC

August 2017-December 2017

- Coded **Java** application to load and edit online images, including adjustable paintbrush and undo features
- Debugged code with **JUnit** testing

BiscuitCurve | personal project

November 2017

- Created an iPhone app in **Swift** to determine if UNC Basketball is on track to score the 100 points necessary to receive a free Bojangles' biscuit

Flow analysis | Simulated Life class | Chapel Hill, NC

Spring 2017

- Captured high-speed images of swimming jellyfish to analyze flow in **MATLAB**
- Expanded existing **MATLAB** libraries to create representative swimming jellyfish model

Data analysis | Field Geology class | Mono County, CA

August 2016-July 2017

- Completed drone survey of Owens River Gorge, CA and generated 3D model in **Agisoft PhotoScan**
- Coded charts and geological model in **RStudio** to better visualize data
- Presented research with a partner at the 2017 Geology Society of America meeting in Honolulu, HI

Asheville Recovery and Psychiatric Services | web development | Asheville, NC

June-July 2016

- Designed website in **Wordpress** including contact form, interactive map, and live reviews
- Edited theme using **PHP** and **CSS**

LEADERSHIP AND COMMUNITY SERVICE

Carolina Outdoor Education Center, Expeditions Instructor | Chapel Hill, NC

March 2017-present

- Lead backpacking, climbing, kayaking, paddleboarding expeditions in wilderness settings
- Plan 2-3 trips per semester to facilitate the experiential education of 6-10 UNC students

Nourish-UNC, Projects Committee Co-Chair | Chapel Hill, NC

Fall 2016-present

- Coordinate sustainable partnerships with two community organizations
- Lead committee of 5-10 members to develop domestic project models

Hargraves Community Center, weekly tutor | Chapel Hill, NC

Jan 2017-May 2017

- Tutored 3 K-5 students independently each week

Lookout Observatory at UNC-Asheville | Asheville, NC

Spring 2016

- Volunteered at monthly public outreach stargazes
- Presented constellations and space exploration to elementary students

SKILLS

Programming Languages: Java, HTML, CSS, JavaScript, PHP, SQL, R, MATLAB

Software: Adobe Photoshop, Illustrator, and InDesign; Microsoft Office

Certifications: CPR/First Aid/AED, Wilderness First Aid