

# Tony Bird

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## EDUCATION

### University of North Carolina at Chapel Hill

May 2020

B.S. in Computer Science, B.A. in Music **GPA:** 3.75

**Relevant Coursework:** Foundations of Programming, Data Structures, Languages and Computation, Computer Organization, Algorithms and Analysis, Discrete Math, Calculus 1-3, Linear Algebra

**Honors:** Dean's List- Fall 2016 through Fall 2018

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

## SKILLS

**Languages:** Java, PHP, TypeScript, JavaScript, HTML, CSS

**Other Tools:** Git, Eclipse IDE, JUnit, Visual Studio Code, Bootstrap, WordPress, Adobe Creative Cloud

## WORK EXPERIENCE

### Undergraduate Teaching Assistant, Intro to Programming (COMP 110) | UNC Chapel Hill

August 2018-present

- Teach object-oriented and functional programming concepts in **TypeScript**
- Hold one-on-one office hours to assist with course material and assignments for ~950 students

### Web Development Intern, Carolina Population Center | Chapel Hill, NC

May 2018-August 2018

- Developed bibliography manager plugin with **PHP** and **JavaScript**, now used on 4 project websites
- Built staff directory page with **PHP**, querying external **MySQL** database
- Worked collaboratively with web services team using **Git**
- Designed an automated workflow for migrating 1000-page Perl-based intranet site to **WordPress**

### Expeditions Instructor, Carolina Outdoor Education Center | 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
- Maintain certifications in CPR/First Aid/AED, Wilderness First Aid

## PROJECTS

### Attendance System | Asheville Symphony Chorus | Asheville, NC

December 2017

- Programmed online attendance log in **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

October-December 2017

- Created Model-View-Controller **Java** app to load and edit online images, including adjustable paintbrush and undo features
- Debugged code with **JUnit** testing

### BiscuitCurve | personal biscuit acquisition project

November 2017

- Built 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, and direct user to nearest participating Bojangles' location when a qualifying score is reached
- Parsed ESPN score data to compare points with remaining game time

### ConfuseCarolina | HACK110 Hackathon | Chapel Hill, NC

April 2017

- Created a **Java** desktop app that mimics functionality of the existing UNC student portal
- Recreated ConnectCarolina's unique user interface using **JavaFX**

### Data visualization | 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
- Produced charts and digital elevation model using **R**
- Presented research with a partner at the 2017 Geology Society of America meeting in Honolulu, HI

## ACTIVITIES & LEADERSHIP

### Advocate, Community Empowerment Fund (CEF) | Chapel Hill, NC

September 2018-present

### Radio DJ, WXYC 89.3 FM | Chapel Hill, NC

May 2018-present

### Project Manager, Nourish-UNC | Chapel Hill, NC

May 2017-May 2018

### Volunteer, Pearl Hacks (All-Female Hackathon) | Chapel Hill, NC

February 2018

## HONORS & AWARDS

### UNC Summer Study Abroad Fellowship | Dublin, Ireland

Summer 2017

### Adler Scholarship in Music | Chapel Hill, NC

August 2016-May 2020