

Cale Wolf

(224) 401-7740 | caleqw2@illinois.edu | GitHub: [caleqw2](#) | LinkedIn: [calewolf](#) | [calewolf.net](#)

Education

University of Illinois at Urbana–Champaign

May 2023

Bachelor of Science in Computer Science and Music

GPA: 3.98/4.00

- Relevant Courses: Data Structures, Database Systems (Spr. 2021), Computer Architecture (Spr. 2021)

Experience

CS126 - Software Design Studio

August 2020 – Present

Course Assistant

- Lead a weekly code review where students present their work from assignments in Java and C++
- Grade students weekly with individualized feedback on concepts in programming style and testing

KTBYTE Computer Science Academy

June 2020 – August 2020

Instructor

- Taught an online course on intermediate Java/Processing coding to middle-school students
- Created daily lesson plans including demos, homework, and projects tailored to student ability levels and interests

Projects

ScaleFinder

Spring 2020

- Designed a practice tool for musicians written in C++ that finds possible scales to play over chord symbols, visualizes them on a piano graphical user interface, and plays back scale audio

Spotigraph

Winter 2020

- Collaborated with a team of four students to create a program that finds path connections between musical artists based on their collaborations
- Implemented a graph data structure to hold artist and song data obtained from the Spotify API

Awards and Honors

- UIUC Chancellor's Scholar (2020)
- Fine & Applied Arts Dean's List (2020)
- Fine & Applied Arts James Scholar (2020)
- All-State Honors Jazz Band Pianist (2019)

Activities

- UIUC Jazz Ensembles, pianist (2019 - Present)
- Association for Computing Machinery, general member (2019 - Present)
- UIUC Varsity Men's Glee Club, general member (2019-2020)

Technical Skills

- Advanced Programming Languages: Java, Python, C++
- Intermediate Programming Languages: Swift, JavaScript, HTML, CSS
- Proficiency in using Git version control