

# Simon Cooper

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## EDUCATION

### University of Illinois at Urbana Champaign

Urbana, IL

B.S. in Computer Science + Music | GPA: 3.61/4.00

August 2020 – December 2024

B.M.U.S. in Instrumental Performance in Percussion | GPA: 3.61/4.00

**Coursework:** Data Structures, Algorithms, CyberSecurity, System Programming, Acoustics, Audio Computing, Game Development, Music Theory and Musicianship, Statistics

**Extracurriculars & Honors:** HackIllinois, ACM, Wind Symphony, Symphony Orchestra, Steel Band, Percussion Ensemble, Sinfonia de Camera, Champaign-Urbana Symphony Orchestra, Tea Club, Phi Eta Sigma

**Domains:** SWE, Mobile Development, Frontend/Backend Development, Music Composition, DSP, CyberSecurity

## WORK EXPERIENCE

### Life Stages

San Francisco, CA

#### Software Engineer Intern

May 2024 – Present

- Collaborated in a team of 8 to develop mobile pages of the startup's application in tandem with the Back End team's work via CI/CD Pipelines.
- Designed multiple application pages in React Native while ensuring compatibility for iOS and Android mobile devices and following the waterfall methodology.
- Adapted efficiently to a company transition to native iOS development utilizing UIKit/SwiftUI to duplicate my work with a presentation emphasis.

### Places

Tel Aviv, Israel

#### Mobile Application Developer Intern

June 2023 – August 2023

- Utilized React Native and Object Oriented Programming pertaining to Mobile Authentication for iOS and Android with presentation emphasis.
- Integrated my work with REST APIs such as Firebase to ensure a secure authentication system.

### Revature

Remote

#### Back-End Pre-Employment Program

Jan 2025 – March 2025

- Developed programming skills in Java, SQL, RESTful API Construction and Spring Framework.
- Implemented project work including construction of functional REST APIs using Test Driven Development methodologies.
- Completed 108 Coding Activities.
- Showcased understanding of concepts through fourteen (14) evaluations.
- Leverage Java APIs to write algorithms to solve various challenges and problem sets.

## PROJECTS

### IlliniNook: UIUC Study Space Finder

Feb. 2024

- Collaborated with a team of 4 SWEs for HackIllinois2024 to build a web app that tracks all study spaces on campus.
- Developed a google maps API and geo positioning algorithm by integrating Django with Javascript for navigation.
- Created a very presentable details web page in HTML on each location with organized meta data.

### Aurora Sonify: UIUC CS + Music Capstone Project

Sep-Dec. 2024

- Built an iOS application with that parses and sonifies Aurora data from the NOAA.
- Utilized Flask and UDPsockets to communicate vital data between a swift client and python/musx sonification server.
- Added an extension to display sonified data as braiile sheet music- the main musical format for blind people.

### Flight Calculator: Final Project for CS225

Dec. 2022

- Colaborated in a 3 person team to design a calculator in C++ to flight passengers in finding the best flight within budget and travel plans
- Demonstrated valuable knowledge of object oriented programming and advanced algorithms commonly utilized by modern SWEs such as Dijkstra and IDDFS.

## SKILLS & INTERESTS

**Programming Languages:** Python, C/C++, Javascript, Swift, HTML, Haskell, Assembly, systemVerilog, Java, SQL

**Frameworks and Software:** JUCE, Maven, Spring, Javalin, JUnit, Mockito, JDBC, CoreMIDI, SwiftUI, Django, Flask, React Native, NumPy, SciPy, Logic Pro, Unreal, MuseScore, Firebase

**Interests:** Hiking, Coffee, Board Games, Composing Music, Nintendo