Matthew Finley

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EDUCATION

University of North Carolina at Chapel Hill   **May 2023**
Bachelor of Science in Computer Science, Minor in Music   *Chapel Hill, NC*

Relevant Coursework: Foundations of Programming, Data Structures (enrolling in spring)
Campus Involvement: Carolina Analytics & Data Science Club (Web Development Chair), Carolina Tech Explorers, Marathon Team, Jazz Ensemble

SKILLS

Skills: Proficient in Java, Python, and HTML/CSS Web Development; Familiar in JavaScript, Swift, C, and SQL
Technologies: Flask, React, iOS, Git, and Unix

EXPERIENCE

Google CS First Club | Founder and Volunteer
- Founded a Google CS First club to teach ~25 middle schoolers Computer Science with Scratch
- Recruited others to help run the club and it runs to this day

Boy Scouts of America | Eagle Scout
- Led 8 scouts in a service project at the Western Wake Crisis Ministry food pantry to renovate 125 shelves in order to meet new safety regulations
- Held 5 leadership positions: Quartermaster, Scribe, Patrol Leader (x2), Assistant Patrol Leader
- Countless volunteer projects in the community including assembling and delivering luminary kits, building art easels for a school, renovating a garden, and building a walkway for a church

PROJECTS

PostureNet | HackNC 2019 Most Innovative Hack & Healthiest Hack Runner Up
- Built a web app that uses Machine Learning to analyze and correct posture in real time
- Uses TensorFlow.js to gather human pose data points
- Deployed with Firebase

Nomadr | CS50x Final Project
- Created an interactive web map that locates safe places to work, sleep, and shower on the road with community generated locations
- HTML/CSS/JavaScript front end
- Backend made in Python using Flask framework to dynamically generate webpages
- SQLite3 database to track user registration and datapoints

VEWI: Virtual Electronic Wind Instrument | Personal Project
- Built an iOS app that lets you use your phone to play music using standard woodwind fingerings
- Coded in Swift using Xcode, utilizing AudioKit framework