

# Matthew Finley

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## EDUCATION

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**University of North Carolina at Chapel Hill**

**May 2023**

*Bachelor of Science in Computer Science, Minor in Physics*

*Chapel Hill, NC*

**Relevant Coursework:** Foundations of Programming, Data Structures & Algorithms, Computer Organization, Linear Algebra, Discrete Mathematics

**Campus Involvement:** Carolina Analytics & Data Science Club (Web Development Chair), Quantum Computing Club, Carolina Tech Explorers, Marathon Team, Jazz Ensemble

## SKILLS

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**Languages:** Proficient in Java, Python, and HTML/CSS Web Development; Familiar in C, JavaScript, Swift, and SQL

## EXPERIENCE

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### **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

### **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

### **Jet's Pizza | Delivery Driver**

- Part-time position at local pizza restaurant, 8 months

## PROJECTS

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### **PostureNet | HackNC 2019 Healthiest Hack & Most Innovative 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

### **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

### **Nomadr | CS50x Final Project**

- Created an interactive web map that locates safe places to work, sleep, and shower on the road
- HTML/CSS/JavaScript front end
- Backend made in Python using Flask framework to dynamically generate webpages
- SQL database to track user registration and datapoints