

# Fernando Winfield Murillo

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Website, LinkedIn, GitHub at <https://fernandowinfield.github.io>

## Education

### Northeastern University - Seattle

Master of Science in Computer Science | GPA 4.0/4.0

Seattle, WA

Expected: December 2020

- Relevant coursework: Discrete Math and Data Structures, Computer Systems, Algorithms, Foundations of Computer Science, Object Oriented Design, UI Development.  
In progress (Fall 2019): Database Management Systems, Machine Learning.

### McDaniel College

Bachelor of Arts in Exercise Science | GPA 3.9/4.0

Westminster, MD

May 2017

## Technical proficiencies

**Programming languages:** Python | Java | JavaScript | HTML | CSS

**Software and Frameworks:** Git & GitHub | ReactJS | Redux | Apache Maven

## Projects

### Basketball Court Finder Social Network App

2019

- Built a responsive and accessible user interface with ReactJS and Redux. Styling made with CSS.
- Implemented the app's features, like user account creation, login, court search, and players status, using NodeJS and Firebase's authentication service. Features under construction: map API integration, real-time court activity, and social connectivity.
- Integrated a database into the app to store user and courts data using Firebase NoSQL database service.
- Deployed the web application's user interface and server with Heroku.

### Supermarket Inventory System

2019

- Designed a backend interface with Java to manage the inventory operations of a supermarket or similar store.
- Integrated the inventory portion of the system with the shopping cart and checkout features developed by the rest of the team.
- Managed the project using Apache Maven and Git and wrote unit tests using JUnit to achieve code test coverage of 90%.

### Mini Pac-Man Game App

2018

- Created the game's user interface with the Python mode of the Processing programming platform.
- Implemented the game functionality, including Pacman's (user) movement mechanics and the ghost's (CPU) chasing algorithm with Python.

## Experience

### Northeastern University - Seattle

Graduate Teaching Assistant

Seattle, WA

January - May 2019

- Helped students learn and practice CS fundamental concepts like data types, data structures, loops, object oriented programming, and recursion.
- Collaborated with the team of TAs to lead the class recitations and produce supplemental class material.

### US Fitness Holdings LLC

Performance, Strength and Conditioning Coach

Washington DC Metro Area

June 2017 - June 2018

- Trained 5 sport teams and 200+ athletes (ranging from elementary school to professional level) through resistance, speed, and sport specific skill exercises, improving their max effort lifts, 30-yard dash, and vertical jump scores.
- Trained 200+ adults through resistance and conditioning exercises, improving their strength, movement quality, and body composition.

### Effect of Recovery Modality on Rate of Force Development, Vertical Jump, and Lactate Clearance

Research Co-investigator

Westminster, MD

June - August 2015

- Collected and integrated data on vertical jump and squat rate of force development from subjects using a force plate and Microsoft Excel to be further processed by other colleagues from the research team.
- Obtained blood samples and recorded blood lactate levels to assess recovery of participants after exercise.