

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 Pac-Man's (user) movement mechanics and the ghost's (CPU) chasing algorithm with Python.

Experience

Northeastern University - Seattle

Seattle, WA

Graduate Teaching Assistant

January - May 2019

- Guided students with little to no prior programming experience to complete the Foundations in Computer Science (CS) course and move on to more advanced courses by teaching them CS fundamentals like data types, data structures, loops, functions, object oriented programming basics, and recursion.
- Led the class recitations in collaboration with the team of TAs to help students build various programs and two projects.

US Fitness Holdings LLC

Washington DC Metro Area

Performance, Strength and Conditioning Coach

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

Westminster, MD

Research Co-investigator

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.