Harrison Hubbard

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Education

University of North Carolina at Wilmington **Jan 2023 – May 2026**

Bachelor of Science in Computer Science *Wilmington, NC*

Relevant Coursework

- Data Structures
- Scientific Computing
- Machine Learning
- Database Management
- Computer Architecture
- Physics
- Object Oriented Programming
- Calculus
- Software Eng. Fundamentals
- Linear Algebra

Projects

PoppyCox Inventory Tracker | *Python, Node, Git, Django* **Jan 2025 - Present**

- Integrate Clover API to automatically pull sales data and update inventory in real-time.
- Implement authentication and connect a database to securely store user and inventory data.
- Develop the prediction module using simple analytics now, with plans to upgrade to machine learning later.
- Built the inventory prediction module in the data-analysis directory using Python libraries like pandas, scikit-learn, and NumPy.

Marvel Rivals Bot | *Python* **Jan 2025 - Present**

- Created a discord bot to display a user's marvel rivals statistics
- Processed user inputted information in the back-end of the app to return a subtotal price based on the tickets selected.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Vending Machine Simulator | *Java, JavaFX, Git* **April 2025**

- The Vending Machine Simulator consists of managing items and inventory, displaying purchases, accepting virtual money.
- Implemented a fully functional GUI that simulated a working vending machine
- The goal was to apply object-oriented programming concepts such as inheritance, polymorphism, and abstraction using Java.

Bank Database System | *SQL, HTML/CSS* **April 2025**

- Designed a relational database for a bank, focusing on organizing data for members, accounts, loans, and employees
- Improves data accessibility and efficiency for banking operations by enabling clear navigation and relationships between core entities.
- Created ER diagrams, converted them into schemas, wrote SQL queries for data manipulation, and developed a basic web interface for easier data access.

Optical Flow | *Python, Numpys,OpenCV* **April 2025**

- A program that loads a pair of images with a small amount of motion in between them.
- Implement the Lucas-Kanade algorithm utilizing Numpys and OpenCV libraries to compute the optical flow relating the image pair.
- Eventually building up to track objects within videos

Technical Skills

Languages: Python, Java, C, SQL, ASM, Binary
Web Technologies: HTML,CSS,React,JavaScript
Libraries: NumPy,Pandas,Scikit-learn, OpenCV
Operating Systems: Windows, Linux, MacOS
Developer Tools: Git/Github, VSCode, LC-3, IntelliJ, Google Collab, Jupyter

Extracurricular

Association of Computing Machinery (ACM) **Spring 2024 – Present**

Member *UNCW*

- Gained access to a wealth of learning resources, including online courses, technical books, and research papers to enhance your skills and stay up to date with the latest in computing.
- Connected with a global community of students, educators, and professionals through events, local chapters, and special interest groups