Harrison Taylor

hstaylor@wpi.edu | harrisonstaylor.org | 401-330-8140

Objective

Passionate computer science student seeking a position in a relevant field of computer science to apply my skillsets in machine learning, scripting, object-oriented programming, software design and development, or systems programming.

Education

Worcester Polytechnic Institute (WPI), Worcester, MA   May 2024/2025
B.S./M.S. in Computer Science, GPA 4.0

Skills

Programming Languages: Java, C++, Python, C#, C, Oracle, PostgreSQL, CSS, JavaScript, HTML, MySQL

Software Development Tools: AWS, Google Colab, IntelliJ IDE, CLion IDE, WebStorm IDE, PyCharm IDE, pgAdmin, GitHub, Gradle, Hibernate, Node, WebGL, Android Studio

Relevant Coursework

Software Engineering
- Designed an app for Brigham and Women's Hospital utilizing a variety of coding languages.

Algorithms
- Learned a variety of data structures, as well as their associated algorithms.

Human-Computer Interaction
- Learned a variety of user interface design practices, featuring accessibility and web development skills.

Database Systems
- Learned SQL concepts and languages for Oracle SQL and PostgreSQL.

Computer Networks
- Used C and C++ to learn and model a variety of network functions and concerns such as internet traffic.

Projects

Software Engineering Application in Collaboration with Brigham and Women's Hospital
- Designed an app for Brigham and Women's Hospital utilizing Java, JavaFX, MaterialFX, and PostgreSQL
- Constructed the database for the app using Hibernate ORM and used various design strategies to implement it.
- Utilized an Agile Scrum methodology, meeting frequently and generating many iterations.

MERN Task Tracker Web Application
- Utilized React, Node.js, Express, and MongoDB to create a simple task tracking web application.

GoatHacks, WPI   2022, 2023
- Utilized TensorFlow artificial intelligence to generate photographs based on a WPI social media account.
- Created an application in Android Studio to control a cat robot.

Major Qualifying Project
- Worked with a team of students to write a paper regarding the aptitude of various RDBMSs in academia.

OpenAI Chatbot
- Used the OpenAI API in Python to create and finetune a general AI chatbot for a Python application.

Sign Sight
- Used YOLOV8 to create a machine learning model to identify signs and their types in images and videos.

Awards/Honors

WPI Dean's List   December 2021, December 2022, May 2023
WPI Presidential Scholarship Recipient   December 2021 – May 2024
WPI High Distinction   May 2024

Work Experience

Tech Risk Intern, Citizens Bank, Johnston, RI   June 2024 – August 2024
- Worked to automate risk analysis and management via Python scripts and develop a secure and scalable programming standard for the department.

Waitstaff, Atria Senior Living, Barrington, RI   April 2021 – August 2021
- Worked with a team of people to safely deliver food to residents during the COVID-19 Pandemic.