**Harrison Taylor**

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**OBJECTIVE**

Passionate computer science student seeking a full-time position in a relevant field 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

Bachelor of Science/Master of Science in Computer Science, GPA 4.0/4.0

**EXPERIENCE**

**Tech Risk Intern,** Citizens Bank, Johnston, RI June 2024 – August 2024

* Automated risk analysis and management via Python scripts.
* Developed a secure and scalable programming standard for the department.
* Aided in rebasing code from local network to Bitbucket.

**SKILLS**

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

**Software Development Tools:** AWS, Google Colab, Scikit Learn, TensorFlow, PyCharm IDE, pgAdmin, GitHub, Gradle, Hibernate, Node, WebGL, Android Studio, Pandas, NumPy, PyTorch.

**PROJECTS**

**Sign Sight**

* Used YOLOV8 to create a machine learning model to identify signs and their types in images and videos.
* Developed a secondary model to determine country of origin when provided a photo of a sign.

**Software Engineering Application in Collaboration with Brigham and Women’s Hospital**

* Led the backend development in a team of 10 people, constructing the database utilized by the app.
* 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.
* Created urgency metrics, a calendar interface, and a notification system.

**Linux Operating System Memory Allocation Tracker**

* Developed a program to compare different virtual to physical memory techniques utilized by the Linux OS.
* Compared performance on virtual machines and real computers.

**College Sorting Application User Interface**

* Developed a GUI and UX for a college sorting application .
* Modeled in Canva and Balsamiq to simulate user experience, highlighting accessibility features.

**OpenAI Chatbot**

* Used the OpenAI API in Python to create and finetune a general AI chatbot for a Python application.
* Developed Tkinter frontend with simple chat interface.

**Evaluation of Database Technologies for Higher Education**

* Worked with a team of students to write a paper regarding the aptitude of various RDBMSs in academia.
* Published a research paper documenting our findings.

**Custom Deep Neural Network**

* Used Python to develop a custom neural network for image recognition across 10 classes.
* Utilized variable numbers of hidden layers and types of activation functions.

**AWARDS/HONORS**

**Upsilon Pi Epsilon Member**  March 2024 – Present

**WPI Dean’s List**  December 2021, December 2022, May 2023

**WPI High Distinction**  May 2024