Edward Wynman

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WORK EXPERIENCE

ECRT Software Engineer Intern, Zebra Technologies   **May 2023 – Present**

- Created a Python GUI app with Pyshark for Android Wi-Fi and voice calling issue debugging. Reduced debug time from 1 hour to 10 minutes. Enabled data sorting, filtering, and Excel report generation.
- Utilized Python and PyTorch to employ machine learning techniques, enhancing the accuracy and performance of the summary reason section in the application's output.
- Created a NSIS script to convert the Python application into a custom executable, resulting in easy sharing and accessibility within the company and blocking out noncompany devices increasing security of the application and codebase.

Research Assistant, NASA New Jersey Space Grant Consortium – Rutgers University   **Sep 2022 – May 2023**

- Used the USGS API for dataset search and download using Python requests to manage HTTP requests and json to encode and decode data in JSON format.
- Automated the download process for multiple datasets, including handling download options, retrieving direct download URLs, and waiting for data to become available if necessary.
- Enabled browsing of hyperspectral image library, examining spectra of any pixel in the image, assigning pixels to material classes, and performing Principal Component Analysis (PCA) and automatic spectra classification using a spectral angle mapping.

Software Engineer Intern, ISC Industries   **Jun 2022 – Aug 2022**

- Effectively utilized Python to develop and implement efficient scripts for data analysis and movement within the company's database resulting in shorter turnaround times.
- Created and deployed Python scripts to automate the seamless transfer of files and directories, ensuring prompt updates for added items added to the database allowing for the company to access new files as soon as they are available.
- Utilized SQL to design and execute multiple queries, enabling smooth storage and easy retrieval of company data through Python scripts, enhancing customer satisfaction.

SKILLS

- **Programming Languages**: Java, Python, JavaScript, C, PHP, SQL, R, Bash, HTML5, CSS
- **Tools & Frameworks**: Git, GitHub, React.js, Node.js, Bootstrap, MySQL, NoSQL, jQuery

EDUCATION

Bachelor of Science - BS, Computer Science, Montclair State University   **Dec 2023**

- **Minor:** Data Science
- **GPA**: 3.50/4.0
- **Related Coursework**: Software Engineering I & II, Data Structures and Algorithms, Database Systems

PROJECTS

- **WorkoutBuddy** - Developed a full-stack application using MongoDB, Express, React, Node.js for user authentication and authorization. This project involved implementing secure password hashing, JSON Web Tokens for user authentication, and protected routes for authorized users. Allows users to create an account to log and track their workouts with date and timestamps. View Here: https://github.com/Ewynman/Workout-Buddy
- **ShuttleBus** – In a team of six, we created a full-stack application using HTML, PHP, JavaScript, CSS, and MySQL. The application allowed students to track the location of their school shuttle in real-time using the Google Maps JavaScript API. It featured user accounts stored in a MySQL database. The application also provided functionality for drivers to update their location and route announcements, while admins could add new drivers and routes. View Here: https://github.com/Ewynman/shuttlebus

LEADERSHIP EXPERIENCE

Web Developer and Student Director, HawkHack   **Jun 2022 - Present**

- Successfully orchestrated a 24-hour hackathon by leading a cross-functional team. Spearheaded the development of the hackathon's website, overseeing product design, and ensuring seamless functionality. Engaged with educational institutions and industry professionals for participation. Designed visually captivating flyers to promote the event and leveraged social media platforms to maximize event visibility.

Computer Club President, Montclair State University   **Jan 2022 – Present**

- Planned programming events for 150+ members and spearheaded all meetings and tech workshops, including Making Twitter Bots with the Twitter API with Python, Making Pong with Python, How to Develop & Deploy website, and many more.