Edward Wynman

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WORK EXPERIENCE

Volunteer Full-Stack Developer, Pastoor   **Sep 2023 – Present**

- Implement responsive and intuitive user interfaces using Next.js for an enhanced user experience including homepages, login pages, and more.
- Leverage MongoDB and Nest.js to build a robust, high-performance, and secure backend for seamless data management and user data security.
- Incorporate features for secure appointment scheduling, confidential communication, and client data privacy focusing on user comfort and accessibility.

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

- 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.
- Developed efficient Java app using HashMaps to swiftly analyze logs and codebases, pinpointing errors and generating XML reports—slashing debugging time to seconds.
- Created a Python script to parse Bluetooth capture files, translating event hex codes into strings. Automated addition to Frontlines decoder script for seamless deployment to frontline.

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.

SKILLS

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

EDUCATION

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

- **Minor:** Data Science
- **GPA**: 3.50/4.0

PROJECTS

- **POKE Travel Hub** – Built a comprehensive travel information platform using React.js for the frontend, and a Python Flask backend powered by MongoDB. The platform seamlessly integrates custom search functionality to retrieve data from the database, offers real-time flight tracking capabilities by accessing various APIs, and provides a user-friendly public transportation system that leverages location-based data retrieval from APIs. View Here: https://about-poke.netlify.app/
- **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   **Jun 2022 - Present**

- Planned programming events for 200+ members and spearheaded all meetings and tech workshops, including making Twitter Bots with the Twitter API in python, making pong with python, creating quiz games with JavaScript, how to develop full-stack applications and websites, and many more.