JOSE VALDIVIA

Computer Science | pjose.u1999@gmail.com | 301-273-4055
https://josevaldivia.herokuapp.com/

EDUCATION

University of Maryland ● Computer Science August 2022 - Present
Montgomery College ● Associate Degree with Honors GPA: 3.8 Feb 2020 - May 2022
- **Courses**: Data Structure & Algorithms, Java OOP, Web Applications, Python, C++, C

EXPERIENCE

Montgomery College — Germantown, MD Jan 2022 – May 2022
Group Project Research
- Collaborated with 3 members for Data Analysis and Data Visualization with Python **(Pandas, Plotly)**
- Extracted big data from APIs and CSV files and created a Web App to help visualizing the data.
- Helped faculty to visualize the student's enrollment, attendance, schedule, grades, and personal information.

Montgomery College — Germantown, MD Jan 2022 – May 2022
Math Teaching Assistant
- Prepared and taught in-person weekly for over 20 students in the course **Calculus II**
- Learned to better explain technical concepts, gave detailed feedback, and received a **95% rating** from my students.
- Uploaded problem-solving videos to YouTube to help future students.

PROJECTS

ShortURL WebApp | JavaScript, Node.js, Flash, MongoDB, Mongoose
- Web application in **Node.js** for users to create short URLs to shorten long links, store them in their accounts, and redirect them to the specific URL.
- Application allows users to create account, verify email, login with **Sessions**, retrieve short URLs from **MongoDB,** and shows update notifications on screen with **Flash**.

Portfolio Website | Streamlit, CSS, HTML, Git, Heroku
- Developed a dynamic webpage to view personal background and most recent projects.
- Coded the website entirely in Python using **Streamlit, CSS, and HTML**.
- Deployed the website in the cloud utilizing **Git** and **Heroku** platforms.

Courses Database App | JavaFX, Hash Table, LinkedList, JUnit Test
- Created a desktop program that reads course files and allow users to upload them to the database.
- Used data structures such as **Hash Table** and **Linked List** to store the data.
- Tested code and algorithms with JUnit Test **(Java testing framework)**.

Sentiment Analysis Twitter | TweeterAPI, TextBlob, Pandas, Plotly
- Developed an application that searches user tweets on Twitter and analyzes the sentiment.
- Used tweepy library to access **TweeterAPI** and utilized **TextBlob** to rate the tweets based on the sentiment.
- Plotted on graphs with **Plotly** and **Pandas** to compare user tweet ratings.

SKILLS

- Languages: Python, Java, SQL, JavaScript, HTML, CSS, C++, C.
- Technologies: Node.js, MongoDB, Streamlit, Git, Github, Heroku, JavaFX, Linux