Jack M. D'Angelo III

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587 Manor Lane, Pelham, New York 10803

EDUCATION

Georgetown University, Georgetown College, Washington, DC — Expected Graduation: December 2024

Major: Computer Science BS | Minor: Mathematics — **GPA: 3.7/4.0**

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, C#, JavaScript, BASH

Tools & Technologies: GitHub, PostgreSQL, Visual Studio, JetBrains Rider, Linux, Unity, Screaming Frog, Puppeteer

EXPERIENCE

Burbio, Inc., Pelham, NY — June 2024 – Present

Data Automation Intern

- Played an instrumental role in the successful release of Burbio's new product, the Superintendent Turnover Tracker, by developing and maintaining critical data pipelines.
- Developed and maintained Python and JavaScript scripts to scrape various websites for bond data, ESSER data, and other pertinent information, ensuring comprehensive and accurate data collection.
- Established automated data pipelines using Screaming Frog to scrape and monitor updates on school district websites. This system efficiently funneled data, particularly focusing on strategic plans and school board meeting information, directly into spreadsheets for further processing by other team members.
- Directly contributed to the efficiency and accuracy of Burbio's data collection processes, supporting the company's mission to provide clients with the most comprehensive and timely school district data available.

Georgetown University, Washington, D.C. — March 2024 – Present

Research Assistant

- Worked closely with a professor on an ongoing NASA-funded project aimed at transforming terrain visualization software for Mars and Lunar datasets into a web application using WebGL2, with an anticipated first version release in January.
- Regularly participated in weekly design meetings, contributing to the planning and development phases of the project.
- Developed backend code in JavaScript to efficiently fetch data from NASA servers, chunking and dividing it into portions manageable by WebGL textures. Created detailed metadata files describing geographic coordinates (longitude, latitude) and other relevant information for each data chunk, and integrated persistent storage solutions using IndexedDB and Web Workers to enhance user experience and minimize repeated data downloads.
- Designed and conducted demos for the supervising professor, incorporating valuable feedback from a NASA geophysicist to refine the application's design and functionality.

Georgetown University, Washington, D.C. — July 2023 – Present

Teacher's Assistant for Data Structures, Computer Science I, and Computer Science II

- Tutored Georgetown students 4 times a week to ensure their success in class.
- Completed grading of course assignments according to professor's specifications in a timely manner.

PORTFOLIO

https://jackdangelo10.github.io/PortfolioWebsite/