

# Jack M. D'Angelo III

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## EDUCATION

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Georgetown University, Georgetown College, Washington, DC

Expected Graduation: December 2024

Major: Computer Science BS | Minor: Mathematics

GPA: 3.7/4.0

## TECHNICAL SKILLS

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**Proficient In:** C/C++, Python, C#, JavaScript

**Working Knowledge Of:** Java, BASH, SQL, HTML/CSS, Kotlin

**Tools & Technologies:** Git, PostgreSQL, Visual Studio, JetBrains IDEs (e.g. IntelliJ, Rider), Linux, Unity, Web Scraping (e.g. Puppeteer, Selenium, Screaming Frog, BeautifulSoup)

## EXPERIENCE

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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 designing and implementing a script to manage and continuously update the main dataset.
  - Built a regex-based monitoring system to track news from the top 2,000 school districts' websites, ensuring comprehensive coverage.
  - Leveraged free resources (including Google Gemini API, GitHub Workflows, and Google Alerts) to automate the collection and processing of articles. This solution significantly reduced the manual workload and dramatically improved operational efficiency without incurring additional costs.
- Developed and deployed automated pipelines to streamline the collection of school district grant and ESSER data for dozens of state websites, ensuring timely and accurate data retrieval.

Georgetown University, Washington, D.C.

March 2024 – Present

*Research Assistant*

- Work 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.
- Participate in weekly design meetings, contributing to the planning and development phases of the project.
- Develop 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 and integrated persistent storage solutions using the Origin Private File System and Web Workers to enhance user experience and minimize repeated data downloads.
- Design and conduct demos for the supervising professor, incorporating valuable feedback from a NASA geophysicist to refine the application's design and functionality.
- Working towards first version release in January and publishment of research by the American Geophysical Union.

Georgetown University, Washington, D.C.

July 2023 – Present

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

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

## PORTFOLIO

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