Jack M. D'Angelo III

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EDUCATION

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

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

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, C#, Java, SQL, BASH, HTML/CSS, Kotlin, Dart

Tools & Technologies: Git, PostgreSQL, Node.js, IDEs (e.g. VSCode, JetBrains), Linux, Unity, Web Scraping (e.g. Puppeteer, Selenium, BeautifulSoup)

EXPERIENCE

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

Data Automation Intern – Automating data workflows to reduce manual labor and optimize operations for a small business providing school district data to vendors serving the education sector.

- 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.
- Significantly reduced the manual workload and dramatically improved operational efficiency without incurring additional costs by leveraging free resources (including Google Gemini API, GitHub Actions, Google Alerts).
- Achieved comprehensive coverage by designing a monitoring system for the top 2,000 school districts' websites.
- Delivered tailored technology stack recommendations and assessments of API/software viability by utilizing AI to rapidly self-tutor on new tools and technologies, ensuring informed decisions and optimizing team workflows.
- Guaranteed timely and accurate data retrieval by developing reusable scripts and automated pipelines.

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

Research Assistant – Collaborating on a NASA-funded project to transform Mars and Lunar terrain visualization software into a web application using WebGL2, enhancing data accessibility and user experience.

- Reduced load times and enhanced user experience by integrating persistent storage solutions using Origin Private File System, utilizing Web Worker threads, and chunking data into sizes manageable by WebGL2.
- Contributed to the project's progression through weekly design meetings and presenting demonstrations.
- Refined the application's design and functionality by incorporating valuable feedback from a NASA geophysicist.
- Preparing a poster board for presentation at the American Geophysical Union 2024 annual meeting.
- On track for the first version release in January, with research targeted for publication by A.G.U.

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

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

- Ensure student success by administering office hours for Georgetown students 3-4 times a week, simplifying complex topics for students learning C++ such as memory management, generic typing, OOP, and exception handling.
- Support the academic success of a Georgetown Men's Basketball team student through personalized tutoring.
- Equip students with essential skills not covered in the curriculum, including proficient IDE usage, remote development in a Linux environment via SSH, and debugging techniques.
- Providing timely grading of course assignments, adhering to the professor's specifications while offering constructive feedback to enhance student learning.

PROJECTS PORTFOLIO

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