


# Abey Paul

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## Professional Summary

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Dedicated Computational Data Science and Computer Science student with strong skills in AI and software development, experienced in building AI-powered applications and data pipelines. Proven ability to collaborate on technical projects and deliver innovative solutions for organizational and educational challenges.

## Experience

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**InterSec Inc.**, Security Analyst Intern

Herndon, Virginia, United

Sep 2025 - Dec 2025

- Developed a comprehensive AI Capability Model outlining core organizational competencies needed for successful AI adoption.
- Built an AI Maturity Model to evaluate organizational readiness across multiple technical and operational dimensions.
- Mapped AI capabilities to maturity levels, creating a structured framework organizations can use to track progress and identify improvement areas.
- Conducted an analysis to tie technology vendors and products to specific AI capabilities, enabling clearer solution alignment and strategic decision-making.

**EduVerse**, AI/ML Engineer

Fairfax, Virginia

Dec 2024 - Present

- Designed a reusable data-cleaning pipeline that standardized multi-source scraped datasets, improving downstream model reliability and validation consistency.
- Wrote scripts to convert raw scraped data into structured formats and validate data quality.
- Created reusable functions to process data from multiple scraping runs.
- Built an AI-powered chatbot that delivers fast, coherent, and personalized responses by maintaining context, detecting user intent, and adapting tone for natural dialogue.
- Developed an embedded AI assistant within a web-based IDE, enabling contextual guidance and real-time support for users.

**OmicsCraft LLC**, OmicsCraft Student Intern

Washington, DC

Jun 2023 - Aug 2025

- Tested UI of AI-powered platforms for biomarker discovery and multi-omics integration.
- Authored a User Manual for cloud-based tools and organized bug reports for developers.
- Documented Python functionalities and participated in weekly progress meetings.

**Spark the Journey**, Management Consultant

Fairfax County, Virginia

Sep 2024 - Dec 2024

- Collaborated on improving mentee-mentor matchmaking and volunteer recruitment strategies.
- Proposed solutions to enhance efficiency and stakeholder satisfaction as project manager.

George Mason University, Undergraduate Teaching Assistant

Fairfax, Virginia  
Jan 2025 - Present

- Assist students in learning how to study various data sets through the computer programming language R.

## Projects

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- **StudyOwl – Chrome Extension for Student Focus:** Developing a Chrome extension using HTML, CSS, and JavaScript that promotes student productivity by monitoring online activity and redirecting users to approved educational sites.
- **AI Interview Buddy:** Engineering a camera-enabled AI web application using Lovable AI, that simulates real-time job and internship interviews tailored to the user's selected career path and role, with personalized post-interview feedback.
- **Memory Tic-Tac-Toe:** Designed and developed a browser-based twist on the classic Tic Tac Toe game using HTML, CSS, and JavaScript, integrating memory and cognitive challenge elements.
- **Flourence AI-Powered Baking Assistant:** Creating a voice-interactive web app using HTML, CSS, and JavaScript that assists users with innovative baking ideas through a friendly AI agent named Flourence.
- **DNA Motif Search:** Created a DNA Motif Search Program using C that shows all the possible combinations of the nucleotide bases and eventually factors out all the improper combinations and prints them.

## Education

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George Mason University, BS in Computational Data Sciences, Minor in Computer Science

Fairfax, Virginia  
Aug 2023 - May 2027

- Honors College student
- Relevant coursework & Activities: Computer Science Club, Data Structures, Object-Oriented Programming, Discrete Math, Intro Low-level Programming, Formal Methods & Models, Synthesis of Ethics and Law for the Computing Professional, Linear Algebra, Probability and Statistics, Introduction to Computational and Data Science, Introduction to Agent-Based Modeling and Simulation, Introduction to Scientific Programming

## Skills

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**Programming Languages:** Proficient in Python, Java, R, MATLAB, JavaScript, HTML, CSS; Familiar with C, Fortran, LATEX, SQL

**Developer Tools:** VSCode, RStudio, Jupyter Notebook, Spyder, Figma, Lovable, SQL Workbench, OverLeaf

**Libraries/Frameworks:** ReactJS, PyTorch, NumPy

**Version Control:** Git, Github

**Automation & Scripting:** Python automation, Unix/Bash scripting, pipeline workflows

**AI Development & Automation:** Microsoft Copilot Studio, AI Agents, Prompt Engineering, Workflow Automation, Generative AI Integration, Agent Deployment, Automation Architecture, Power Automate

## Awards & Honors

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- College of Engineering and Computing Fall 2023, Spring 2024, Summer 2024, and Fall 2025 Dean's List
- Accepted into the National Society of Collegiate Scholars (NSCS)

## Certifications

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- **The Complete Microsoft Copilot Studio & AI Agents Bootcamp** – Udemy Issued: January 2026
- **Mastering Microsoft Copilot Studio – From Zero to AI Hero** – Udemy Issued: January 2026