Melodie Galamo

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Education

University of Maryland, College Park   Jan. 2024 – Exp. Dec. 2026
Bachelor of Science in Computer Science   *College Park, MD*

Montgomery College   Jan. 2021 – Dec. 2023
Associate of Arts in Computer Science and Technologies   *Rockville, MD*

Professional Development

Beta Systems International, LLC   November 2024
Intern   *Silver Spring, MD*

- Gained firsthand experience in small business operations by shadowing the CEO and contributing to internal briefings and client pitch preparation for contracts valued at over $500K.
- Observed strategic decision-making processes and documented 3+ full project management cycles across cybersecurity, facilities management, and IT service contracts.
- Acquired real-world exposure to cross-functional service delivery processes through involvement in 10+ government-focused projects across federal, state, and local levels.

Projects

Data Science Model — Beauty Supply Concept | *Python, Tableau, PowerBI*   January 2025

- Analyzed foot traffic and revenue data from shopping centers near the University of Maryland in College Park, MD, USA, using Python to develop a predictive model, estimating $90,000+ in monthly revenue
- Created Power BI visualizations linking foot traffic and potential sales of the store, revealing a 20% sales increase during peak hours. Insights predicted a 15% sales boost and identified strong demand for specialized hair care products, suggesting a beauty supply store tailored to the African-American community could effectively meet an underserved market need around the campus
- Simulated potential sales opportunities using Python and Tableau to analyze foot traffic data and correlate it with product demand. The simulation suggested that hair care products could see a 20% sales increase during peak traffic hours informing stock and promotion strategies.

Technica, Tech + Research Track | *ARX, R, R Studio*   October 2024

- Collaborated with a 5-member team, including Ph.D. students, to analyze the impact of de-identification on 10,000+ social and behavioral records using ARX, R, and R Studio, improving compliance with human subject research privacy standards.
- Anonymized dataset by reducing re-identification risk by 85%, significantly lowering the likelihood of participant exposure to external privacy threats.
- Presented statistical findings and risk analysis to an audience of 200+ at Technica, contributing to the development of ethical data anonymization practices in research.

Technical Skills

Languages: Python, C++, Java, SQL, C, R, OCaml, Rust, HTML
Developer Tools: AWS, Tableau, PowerBI, Ubuntu, Microsoft Excel, Git, R Studio, ARX, JUnit
Technologies/Frameworks: Linux, GitHub, Devpost
Conferences: Attended Afro Tech - Participated in sessions on emerging technologies and diversity in tech while connecting with industry leaders to expand professional network

Leadership Activities

Federal TRIO Student Support Services Program   May 2024
Invited Speaker   *Rockville, MD*

- Delivered an inspiring speech to a diverse audience of administrators, staff, faculty, and students.
- Engaged with attendees on the topics of student success and the value of support services in higher education.
- Contributed to the event's mission to celebrate academic achievements and foster community connections.