

# Taylor Headen

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## EDUCATION

**North Carolina A&T State University**– Greensboro, NC  
**Master of Science in Computer Science**

May 2023

**University of North Carolina at Greensboro**– Greensboro, NC  
**Bachelor of Science in Mathematics**

August 2020

## RELEVANT COURSEWORK

Data Structures & Algorithms, Data Analytics, Database Management, Data Mining, Software Engineering, Software Security Testing, Specifications and Design, Data Warehousing, Linear Algebra, Statistics, Calculus, Discrete Math, Abstract Algebra, Number Theory, Mathematical Analysis

## SKILLS & CERTIFICATIONS

**Programming Languages:** Python, SQL, LaTeX, Java, HTML, CSS

**Technologies:** Spyder, Jupyter Notebook, PyCharm, MySQL, Microsoft Excel, Microsoft Powerpoint, Microsoft Word, Outlook, PowerBI, SSMS, Dash, GitHub, Netbeans, Atom

## EXPERIENCE

**Miami Heat - Data Analytics Intern** | Miami, FL

June 2023 – August 2023

- Collaborated with Revenue Strategy and Analytics team to mitigate errors and inconsistencies in ticketing reports for Miami HEAT and 601 Analytics clients.
- Reviewed SQL queries and documented report logic for improved data accuracy
- Conducted product mapping and classification to ensure precise categorization and organization of products within the company's data warehouse.

**North Carolina A&T State – Graduate Research Assistant** | Greensboro, NC

August 2022 – May 2023

- Conducted in-depth research on emerging technologies and methodologies in the field of recommendation engines and web-based visualization tools.
- Conducted thorough code reviews to understand back-end logic, identify and mitigate bugs, and enhance code quality and readability.
- Created an interactive dashboard using Python's Dash framework as the front-end interface intended for a Tool for Recommending Attack Patterns (TRAP), leading to improved decision-making for cybersecurity strategies.
- Co-authored a paper titled "Jairen Gilmore, Uriah Moore, Xiaohong Yuan, Taylor Headen, Mounika Vanamala. Visualization Dashboard for Recommending Attack Patterns Using Topic Modeling", 12th International Conference on Software and Information Engineering (ICSIE 2023)

**Corning Inc. - Data Engineer Intern** | Corning, NY

May 2022 – August 2022

- Collected, managed, and transformed raw data into actionable insights using DataOps.
- Implemented an ETL framework to process and extract valuable information from disparate sources enabling data consolidation and analysis for actionable insights.
- Integrated manufacturing data architectures by connecting Programmable Logic Controllers (PLCs) with industrial application layer protocols (MQTT) for seamless data communication.
- Developed a Python GUI to streamline entry processes into a Message Queuing Telemetry Transport broker.