

Matthew Abatangle

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EDUCATION

University of Colorado Boulder

May 2027 (Expected)

Bachelor of Science in Information Science, Minor in Business

GPA: 3.7

EXPERIENCE

Software Engineering Intern

June 2025 – Present

University of Colorado Boulder

Boulder, CO

- Develop and maintain automated test scripts using Pytest and Selenium to validate web application functionality
- Participate in Agile sprint planning and task tracking using Jira to support iterative QA cycles
- Collaborate with developers to improve test coverage and ensure quality standards in production

Undergraduate Research Assistant

Jan 2025 – Present

CU Information Visions Lab

Boulder, CO

- Assist in analyzing data visualizations to enhance user interaction with complex datasets
- Collaborate on interdisciplinary research projects focused on information visualization and user accessibility
- Enhanced the lab's online presence by organizing research content for clearer presentation of project findings and data visualizations

Vice President, INFO Buffs

Jan. 2025 – Present

University of Colorado Boulder

Boulder, CO

- Lead initiatives to connect students with opportunities in information science, data science, and UX/UI
- Organize events, workshops, and networking opportunities to foster professional growth
- Collaborate with industry professionals and faculty to expand resources for members

PROJECTS

Olist E-Commerce Delivery Prediction | *Jupyter, MySQL, Python, scikit-learn*

Sept 2025 – Oct 2025

- Queried and cleaned 100k+ Brazilian e-commerce orders using SQL and Python to uncover delivery delay patterns
- Built a logistic regression model achieving 80.8% accuracy and +26% precision improvement after threshold tuning
- Performed precision-recall analysis to select the optimal cutoff point, balancing model interpretability with operational reliability
- Visualized performance metrics and communicated insights highlighting bottlenecks and strategies to reduce false positives and improve delivery outcomes

Ad Campaign Analytics | *Jupyter, MySQL, Python*

Sept 2025 – Oct 2025

- Analyzed Adsphere campaign data to evaluate how advertisers' structure and ad volume influence performance
- Wrote and executed 10+ SQL queries (JOIN, CTE, INTERSECT) to aggregate metrics and identify ROI trends
- Built visualizations (Seaborn, Matplotlib) linking ad volume, spend, and conversion rate for performance insights

Data-Driven Analysis for Colorado Swim School | *Miro, Microsoft Excel, Google Suite*

Oct 2024 – Dec 2024

- Conducted stakeholder interviews to gather qualitative insights and mapped findings using data journey and social world models
- Analyzed social media presence and external factors through data synthesis and secondary source analysis
- Identified operational challenges, proposed data-driven design principles, and provided strategic improvements
- Delivered a professional presentation with actionable insights to enhance organizational decision-making

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, HTML/CSS, Markdown

Frameworks: Microsoft Excel, Tableau, Google Suite, Jekyll

Developer Tools: GitHub, Git, Jupyter, VS Code, Jira, Chrome DevTools, Postman

Libraries: Pandas, NumPy, Matplotlib, Seaborn, PyTorch, PyTest, Selenium, scikit-learn, NLTK

Methodologies: Agile (Scrum), Test-Driven Development (TDD)

Other Skills: UI/UX Design Principles, Data Cleaning, API Testing, Data Visualization, Technical Writing

Relevant Coursework: Python Programming, C++ Programming, Data Structures, Designing User Interactions, Applied Machine Learning, Information and Data Retrieval Systems, Fundamental Concepts in Data Science