Kye Brathwaite

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My GitHub • **My LinkedIn** • **My Webpage**

SUMMARY

Aspiring Data Scientist and adaptable Computer Science student with interests in accounting and problem-solving. Skilled in planning, executing, and completing projects efficiently, analyzing complex challenges, and developing strategic, data-driven solutions.

EDUCATION

University of the West Indies, Mona Jamaica   **2026**

Bachelor of Science, Computer Science (Minor in Accounting), GPA 3.52

- **Relevant course work:**
  Introduction to Computing I, Introduction to Computing II, Mathematics for Computing, Introduction to Object- Oriented Programming, Software Engineering, Net-Centric Computing, Discrete Mathematics for Computer Science, Object-Oriented Design and Implementation, Analysis of Algorithms, Intro to Database Management Systems, Theory of Computation, Systems Programming, Dynamic Web Development, Operating Systems, Principles of Artificial Intelligence, Principles of Economics, Introduction to Cost and Managerial Accounting, Principles of Economics II, Business Law, Financial Accounting

Harrison College Secondary School, Barbados   **2023**

- **Unit 2:** Applied Mathematics UNIT 1 (Grade I), Communication Studies (Grade II), Computer Science (5th in the Region, Grade I), Physics (Grade I)
- **Unit 1:** Applied Mathematics UNIT 1 (Grade I), Caribbean Studies (Grade I), Computer Science (Grade I), Physics (Grade I)
- **CSEC:** Spanish, Principles of Accounts, Physics, Mathematics, English B, English A, IT, Physical Education and Sport (Grade I), Caribbean History (Grade II)
- **Academic Achievements and Honors:** Barbados Government Exhibition (2023), Scholarship Received from Old Scholar for performance in STEM (2022)**,** 5th in the Caribbean Region in CAPE Computer Science (2022), Speech Day Prize Winner (2022), Principal's Honor Roll Awardee (2020, 2021, 2022)

PROFESSIONAL EXPERIENCE

Hazon Flavours, Rendezvous Barbados   **June-Aug 2025**
Head Chef/ Manager

- Led a team of 12 staff, managing day-to-day restaurant operations, ensuring smooth service.

The Irvine Hall Printery, Irvine Hall UWI Mona   **April 2024**
Printery Operator

- Operated and maintained printing equipment, troubleshooting errors to ensure high-quality output and efficient project completion.

Barbados Robotics Team , Waterford Barbados   **July 2022/2023**
Advisor and Tutor

- Taught and Mentored Young Team Members in preparation for internation competition.

VOLUNTEERISM, LEADERSHIP AND INVOLVEMENT

Jamaica   **2023-2026**
- Sports Representative- Irvine Hall, UWI Mona   2024-2025
- Barbados Student Association of Jamaica- Irvine Hall Representative   2024-2025
- League of Extraordinary Gentlemen   2023-2025

Barbados

- Key Club International- Lieutenant Governor, Division 2   2022-2023
- Harrison College- Premier Special Envoy for Global Citizenship   2022-2023
- Barbados Robotics Team Captain FGC   2020-2023

PROJECTS

Retail Banking: Predictive Churn Pipeline & Risk Segmentation   **Jan 2026**
- Developed an end-to-end ML pipeline using **XGBoost** to identify at-risk customers, achieving an **81% ROC-AUC** while utilizing **SMOTE** to handle class imbalance. Engineered **39 business-specific features**, such as Service Friction and Net Retention scores, to quantify financial exposure and digital adoption patterns. Integrated Explainable AI (**SHAP**) to identify key churn drivers discovering that single-product customers are **4.2x more likely** to leave and built a risk-tiering matrix that identified **$40M+ in at-risk deposits** for targeted retention.

CIBC Budget Tracker (n8n Workflow)   **Oct 2025**
- Built an automated n8n workflow to monitor Gmail for CIBC card transactions, parse key details (amount, merchant, date), and log them into Google Sheets with a dynamic dashboard tracking income, spending, and balances in BBD and JMD. The system features real-time email monitoring, transaction categorization, currency conversion, and automated dashboard updates.

Budget Expense Tracker Web App   **May 2025**
- A user-friendly and responsive budget tracking application built with React.js that helps users monitor their budget and expenses. The app allows users to add, edit, and categorize budget items and expenses in real time, providing an intuitive interface with dynamic updates and clear visual feedback.

Person Blog Website   **Sep 2025**
- Developed a responsive HTML/CSS blog showcasing computing and data science projects, with a structured layout, images, social links, and archives.

Crack the Code Game   **June 2025**
- Built an interactive, web-based number guessing game inspired by classics like Mastermind. Built with React.js, the game challenges players to deduce a secret code of digits using logic, memory, and optional hints.

Python Calculators   **June 2025**

- Developed two command-line calculators using the Shunting Yard algorithm and asteval for secure expression evaluation, gaining experience in parsing, operator precedence, and safe computation.

Python Multi Unit Converter   June 2025
- Built a Python command-line app for converting units across Weight, Temperature, Time, Length, and Volume, featuring input validation and session-based conversion history for user-friendly tracking.

Email Sender and Gmail Parser   June 2025
- Developed a Python script using the Gmail API to fetch and categorize emails from a specific sender. The tool extracts email subjects and bodies, classifies them into "sent," "received," "spent," or "uncategorized" categories, and displays summaries, demonstrating skills in API integration, email parsing, data processing, and Python automation.

Coin Flip Simulator Collection   June 2025
- Coded a set of Python programs demonstrating the Law of Large Numbers through coin flip simulations. Projects include single flips, multi-flip counters, running ratio tracking, streak analysis, and Matplotlib-powered visualizations, helping users explore randomness, convergence to 50/50 ratios, and streak patterns, while reinforcing Python programming and data visualization skills.

SKILLS

Programming languages: Python, Java, SQL, JavaScript, R, C, Git

Computer software/ frameworks: Office, Excel, Database, Matplotlib, Tableau, Power BI, Ubuntu

Languages: English, Spanish (Basic)

CERTIFICATES

- [Kaggle Python Certificate](#)
- Kaggle Machine Learning Certificate
- Kaggle Advanced SQL Certificate
- [Foundations of Project Management](#)
- Project Initiation: Starting a Successful Project
- Project Planning: Putting It All Together
- Project Execution: Running the Project
- Agile Project Management
- Be There Certificate (leadership/participation)

HOBBIES AND INTERESTS

- Piano and Music Theory
- Track and Field
- Gym
- Agentic AI projects/ experimentation

PERSONAL INFORMATION

Date of Birth: 09/08/2005

REFERENCES

Available Upon Request