

Usoff Samantar

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EDUCATION

University of Maryland, College Park, MD

Aug 2024 – Dec 2027 (expected)

B.S. Computer Science (Machine Learning) & Minor (Statistics)

- Completed Coursework: Algorithms, Computer Systems, Data Science, Probability Models, Applied Probability & Statistics I, II, OOP
- Current Coursework: Machine Learning, Natural Language Processing, Modern Software Development with GenAI, Coding Interview

Frederick Community College, Frederick, MD

Jan 2021 – May 2024

A.S. Computer Science

- GPA: 3.76; Dean's List all semesters; Honors College; High Honors; Gold Medallion

Certificate of Accomplishment (Computer Science Studies)

- GPA: 4.00; Distinction

EXPERIENCE

Shake Shack | Bethesda, MD

General Manager

Mar 2023 – Present

- Manage operations for a \$3–4M annual sales-volume restaurant, overseeing staffing, hiring, inventory, customer experience, and financial performance.
- Reduced inventory waste by 26%, generating approximately **\$28k** in savings through improved inventory controls and reduced product on hand.
- Led staff and customer experience initiatives that helped achieve and maintain the highest customer service rating in the company.
- Coordinated and supported the opening of two new Shake Shack locations in Maryland and Florida.
- Established and maintained 5 strategic local business partnerships to expand community outreach and local brand visibility which led to an 11.5% increase in sales and a 16.5% increase in traffic.
- Ranked #5 company-wide in 2025 and #7 in 2026 based on KPIs and company scorecard performance.

Assistant General Manager

Mar 2021 – Mar 2023

PROJECTS & ENTREPRENEURSHIP

Weather Pattern Analysis | Python, Pandas, SciPy, scikit-learn, Matplotlib, Hypothesis Testing | [Live Notebook](#) Jun 2026 – Aug 2026

- Co-developed a Python data pipeline using Visual Crossing Weather API and Pandas to collect, clean, explore, and analyze Washington, D.C. June weather data from 2023 – 2025 and compare it against unseen June 2026 7-day observation vectors.
- Applied Z-test, T-test, two-sample T-test, statistical simulations with results falling within a 95% confidence interval, PCA, and K-Means clustering across temperature, humidity, precipitation, and wind speed to identify and analyze historical weather patterns.
- Standardized four weather features, reducing them to two principal components (PCA) explaining approximately 67% of the total variance, then utilized the elbow method to select 3 clusters for classifying unseen 2026 weather observations.

Bayesian Baseball Predictor | Java, Swing, OpenWeather API, Gson, Apache POI | [GitHub](#)

May 2024 – Present

- Designed and built a Java desktop application that utilizes MLB player statistics with real-time OpenWeather data near MLB stadiums to estimate temperature-conditioned batting performance using a Bayes-inspired statistical predictor.
- Designed an object-oriented architecture separating functionality into player/statistical models, prediction logic, input validation, API communication, user interface, and data persistence.
- Integrated live weather retrieval using OpenWeather API and Gson for JSON parsing, and Apache POI/Excel for loading, updating, and storing player statistics and game predictions.

ACTIVITIES & HONORS

Maryland Collegiate Honors Council Conference | Does Music Affect Risk Taking? | [PDF](#)

2023

- Selected from 30+ students to represent Frederick Community College at the 2023 Maryland Collegiate Honors Council Conference after advancing from the college's Honors Conference.
- Collected categorical and quantitative data from 50+ respondents, researched music and perception, and planned a casino study to determine whether gambling behavior changed based on ambient music.

Frederick Community College Honors College | Research Presenter & Gold Medallion Graduate |

2023 – 2024

SKILLS

Languages: Python, Java, TypeScript, C, SQL, OCaml, Rust, SAS, x86 Assembly

ML / Data: Pandas, NumPy, PyTorch, SciPy, scikit-learn, Matplotlib, PCA, K-Means, Linear Regression, Statistical Hypothesis Testing

Tools & Frameworks: Git, GitHub, Docker, Jupyter, Java Swing, Gson, Apache POI, FastAPI, REST APIs, Flask, React, Node.js, PostgreSQL