

Chelsea Ibenegbu

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EDUCATION

Colby College, Waterville, ME

May, 2026

Bachelors of Arts in Computational Biology | Minor in African American Studies

Relevant Coursework: *Data Analysis and Visualization, Data Structures & Algorithms, Computational Modeling and Simulation, Neural Networks, Genetics, Advanced Genomics, Microeconomics, Plant Engineering*

PROJECTS

Computational Modeling and Simulation, Colby College

September- December 2025

- Developed a Cellular Automata Simulation in MATLAB to model the epidemiological spread of infectious diseases (SIR model), using von Neumann neighborhood logic to calculate transmission dynamics between susceptible, infectious, and immune populations; engineered a deterministic state-transition engine with probabilistic initialization and real time animation, analyzing how varying infections rates and immunity impact virus propagation across a population grid

Neural Networks, Colby College

February- May 2026

- Implemented Adaline from scratch using gradient descent and built MLP's with hidden layers and backpropagations, applying ReLU and sigmoid classifications; explored Deep Dream and learned CNN architecture on image sets to evaluate model performance

Data Visualization & Analysis, Colby College

August 2024- December 2025

- Implemented PCA for dimensionality reduction and K-Means clustering for image colorspace compression using NumPy, Matplotlib, and OpenCV; interpreted elbow and loading plots to evaluate model fit and used scaling, translating, rotation, projection transformations to explore high-dimensional biological datasets

Algorithms & Data Structures (Java), Colby College

February- May 2024

- Applied fundamental algorithms (Dijkstra's, (BFS), (DFS), and tree traversals) to build real world projects such as a Blackjack engine, Conway's Game of Life, Sudoku, Grid Search, Server Farm Simulator, etc.

EXPERIENCE

Data Research Consultant, [Pryzm.io](https://pryzm.io)

April 2026- Present

- Conduct data driven search synthesizing structured and unstructured datasets into digestible insights; designing research frameworks and delivering clear visualizations and reports that directly inform product development and business strategy decisions.

Associate Project Manager, VOA, NY,NY

June 2025- August 2025

- Engineered Excel based logistics models to track thousands of data points across a multi-site shelter network, achieving 100% supply fulfillment for 40,000+ backpacks distributed to kids across the tri-state area; managed a high-profile corporate partners portfolio including PepsiCo, Lord Abbett, and Warby Parker, translating operational requirements into strategic briefings that aligned our social responsibility goals with organizational missions

Consumer Insights Intern, Beats by Dre, Extern

May 2025- August 2025

- Leveraged Python (Pandas, NLTK, TextBlob) to scrape and analyze 1,000+ Amazon reviews for the Beats Pill, identifying key product drivers such as bass quality and battery life an automating sentiment classification with 80%+ accuracy; conducted exploratory data analysis using Matplotlib and Seaborn to visualize brand perception trends, benchmarking Beats against 15+ competitors to identify market gaps in the portable speaker segment

Associate Barista Manager, Starbucks, Staten Island, NY

June 2025- Present

- Onboarded and mentored new hires on workflow optimization and brand standards while cultivating a welcoming third place environment by delivering personalized service and proactively resolving customer concerns, contributing to an increase in store level customer connection scores

Marketing Associate, Fizz Inc, Waterville, ME

February 2023- May 2024

- Developed and executed targeted promotional campaigns that converted student interests into active app engagement, driving 82% campus adoption over three months through coordinated social media initiatives

EXTRACURRICULAR ACTIVITIES

Colby Women's Basketball, Student-Athlete | SAOC (Student Athletes of Color), President, Waterville,ME

Skills: Python (Advanced), Java (Intermediate), MatLab (Intermediate), R (Intermediate), SQL (Beginner), Canva (Intermediate), Microsoft Excel | Lab techniques : PCR, Restriction Enzyme Digest, Microscopy, Serial Dilution

