

James Ntiamoah

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EDUCATION

Rutgers University - New Brunswick

New Brunswick, New Jersey

Bachelor of Science in Computer Science

Expected Graduation: May 2026

- **Relevant Coursework:** Data Structures and Algorithms, Data Management for Data Science, Data 101: Data Literacy, Introduction to Computer Science

Bachelor of Science in Mathematics

Expected Graduation: May 2026

- **Relevant Coursework:** Introduction to Mathematical Reasoning, Introduction to Linear Algebra, Multivariable Calculus, Calculus II

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS

Frameworks: React.JS, Google Firebase

Developer Tools: Git, Google Colab, Visual Studio Code, Eclipse

Libraries: NumPy, SciPy

WORK EXPERIENCE

Incoming Software Engineering Fellow

July 2024 - Present

Headstarter AI

Remote

Floor Sale Representative/Cashier

April 2023 - August 2023

HomeGoods

Paramus, New Jersey

- Helped customers in finding products and ensuring a positive shopping experience on the sales floor
- Promoted the HomeGoods' TJX Rewards Program, attracting an average of 5 new customers per week

Audio and Technology Co-Director

January 2019 - August 2023

Victory Bible Church International

New York, New York

- Assisted in live streaming church services 3 times a week, aiding those who could not attend in person
- Utilized **EasyWorship** software to display Bible verses, song lyrics, and announcements for the church

PROJECTS

Catagram | Javascript, React, Firebase, Python, Google Colab

- Replicated the user interface of the web application “**Instagram**” using **Javascript** and **React + VITE**
- Used **Firebase's** Authentication, Firestore, **Machine Learning**, and Storage for real-time interaction
- Initialized a YOLO **convolutional neural network** model that detects cats with a **97.8%** success rate
- Connected the model to the application so users can only upload photos if marked yes by the model

HackRU | CloudFlare API, Python, Google Colab

- Leveraged **Clouflare's** API library including Speech to Text, **WorkersAI**, and Sentiment Analysis
- Created **Python** models to analyze filler phrases, words per minute, and tone that the speech gives off
- Derived a rubric to score the user's speech ranging from 1-100 as well as why that score was given
- Competed against **300+** students, placing **1st** for the track “Best AI Application Built with CloudFlare”

Stop and Frisk | Java, GIT, GitHub

- Designed a **Java** program to analyze **4** distinct datasets of NYPD's arrests under "Stop and Frisk" laws
- Identified and assessed potential biases in **7** different demographics, including weight, gender, and age
- Optimized the program for efficiency, reducing runtime and improving data processing speed by **20%**
- Collaborated with peers to improve algorithm accuracy and code efficiency using **GitHub** and **GIT**

LEADERSHIP

DEI Committee

May 2024 - Present

Delta Sigma Pi, Rho Tau Chapter

New Brunswick, New Jersey

- Creating clear for chapter members to follow regarding **Diversity, Equity, and Inclusion** initiatives
- Brainstorming ideas for student outreach, as well as creating events with other Rutgers organizations