Tasmia Chowdhury

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EDUCATION

CUNY Hunter College   **Graduated: January 2025**
Undergraduate Major: Computer Science *and Minor:* Applied Mathematics

- Affiliations: Data Science Fellow (CUNY Tech Prep Fellowship), Public Relations Lead (Girls Who Code), CodePath (Alumni), Rewriting the Code
- *Relevant coursework*: Data Structures & Algorithms, Operating Systems, Cybersecurity, Big Data

TECHNICAL SKILLS & CERTIFICATIONS

Certifications: Asana Foundations Skills Badge, CodePath Intermediate Technical Interview Prep
Languages: Python, C++, JavaScript, SQL, HTML, CSS
Frameworks & Libraries: React, Node.js, Django, TensorFlow, Pandas, NumPy, Matplotlib
Tools & Platforms: Git, GitHub, VS Code, Firebase, MongoDB, PostgreSQL, AWS, Linux

RELEVANT EXPERIENCE

Google | Software Engineering Fellow   New York, NY | Jul 2023 - Oct 2023

- Selected as 1 of 80 fellows from over 350+ applicants, enhancing algorithmic problem-solving skills through weekly DSA challenges and mentorship with a Senior Google SWE.
- Improved coding efficiency and technical communication by collaborating on mock interviews, whiteboarding sessions, and code reviews.

Barclays **|** Data Engineering Intern   Hanover, NJ **|** Dec 2022 - Feb 2023

- Built an optimized credit score extraction tool, reducing processing time by 30%, by automating data pipelines and translating technical solutions into actionable insights for cross-functional stakeholders
- Simplified stakeholder decision-making by enhancing financial trend analysis, developing dynamic Matplotlib visualizations

PROJECTS

Hands 2 Words   Sep 2024 - Dec 2024
- Led a team of 5 in building a full-stack web application that uses computer vision to teach and translate 9+ American Sign Language (ASL) words and phrases to English in real time, enhancing digital accessibility.
- Engineered a seamless user experience by developing a React front-end and Django back-end, implementing RESTful APIs, and integrating Firebase to track user progress and personalize learning.
- Integrated a pre-trained LSTM model, built using MediaPipe and TensorFlow, into the Django backend by connecting the .h5 model file, enabling real-time gesture recognition and translation.

Blemish Bot   Oct 2024 - Dec 2024
- Co-developed, fine-tuned, and deployed a YOLOv8 model on Streamlit to classify 6 types of acne from user selfies.
- Provided personalized skincare advice to users by integrating a chatbot using the Gemini API, which delivered recommendations based on model predictions.

LEADERSHIP & TEACHING

CUNY Tech Prep | Data Science Fellow   New York, NY **|** Jul 2024 - Present
- Selected for a competitive data science fellowship and developed Python projects while advancing skills in EDA, modeling, and machine learning.

Digital Girl Inc., | Program Administrator & Lead Instructor (Part-Time)   Brooklyn, NY | Jan 2018 - Sep 2024
- Developed 21 adaptable lesson plans for 350+ K-12 and senior citizens, enhancing programming and digital literacy in Python, HTML, JavaScript, Code.org, and Scratch.
- Trained and scheduled 30+ staff members to deliver engaging programming sessions, contributing to a 25% increase in participation in underserved areas through partnerships with 10+ schools and organizations.