

# Rayat Chowdhury

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## EDUCATION

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### CUNY Hunter College

New York, NY

*Bachelor of Arts in Computer Science, Minor in Mathematics*

*Expected Graduation – May 2027*

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming I & II, Discrete Structures, Computer Architecture, Software Analysis & Design III.

## EXPERIENCE

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### Software Quality Engineer Intern

September 2025 - Present

*NBCUniversal*

*Stamford, CT*

- Optimize the 2026 NBC Olympics website for scalability, performance, and reliability (**1M+** users) by partnering with Product Managers and Drupal developers to enhance NBCO's CMS infrastructure.
- Improved backend stability and data accuracy through regression testing, JSON payload validation, and input-handling review within NBCO's CMS to ensure compliance with project specifications.
- Increase UI and backend reliability by resolving Jira tickets related to functionality and data inconsistencies, collaborating closely with developers and Product Managers to refine user experience.
- Strengthen release quality by developing and documenting comprehensive Jira test cases, enabling efficient and accurate validation cycles for the 2026 NBC Olympics website.

### Software Engineer Intern

February 2025 – June 2025

*The Difference App LLC*

*New York, NY*

- Developed a Full-Stack application using Node.js, Express.js, and MySQL to help **500+** users track weight loss, manage tasks, and achieve health goals.
- Refactored the Express.js backend by incorporating administrative controls for user and client management to streamline the process of tracking client weight loss and data.
- Optimized administrative workflows by leading a team of **6** interns to refactor key components of the console application, ensuring a more efficient handling of larger data inputs and client management.

## PROJECTS

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### PollenMapz | *React, Vanta.JS, NodeJS, ExpressJS, Javascript, Google Maps API, MapboxGL, Git*

[GitHub](#)

- Launched a full-stack web application serving **50+ users**, delivering location-based pollen data to help individuals identify low-pollen parks and manage allergy symptoms.
- Built a real-time environmental data visualization tool using JavaScript (CommonJS), Google Maps API, ExpressJS, and MongoDB to help users easily find parks with low pollen levels in New York City.

### HabitAware - HunterHacks'25 Winner | *Python, MediaPipe, StreamLit, OpenCV, Git*

[GitHub](#)

- Collaborated with a team of three to develop a camera-based tool that detects and tracks stress-related habits, delivering real-time audio alerts to promote behavior change; presented the project to leaders from Amazon, PitchFest, and Book of the Month.
- Enhanced user self-awareness by developing a backend timer-tracking feature that measured the duration of detected habits, delivering actionable, time-based insights to improve behavior.

### MediSync - NYU Hackathon'25 | *OpenAI API, Google Maps API, Firebase, React, JS, Git*

[GitHub](#)

- Collaborated with a team of four to develop a health-focused web application in 24 hours, delivering personalized recommendations based on user symptoms and displaying nearby relevant medical providers.
- Implemented Google Maps API integration to dynamically display medical providers tailored to users' symptoms and preferences, enhancing the user experience.

### GoAddy.photo - QC Hackathon'25 | *Google Gemini API, ExpressJs, React, Javascript, Git*

[GitHub](#)

- Collaborated with a team of three to build a marketing tool that helps startups and small businesses create and share social media posts to boost brand visibility.
- Integrated Gemini's API on the backend to process images and perform conversions based on user prompts.

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, C++, Python, SQL, HTML, CSS

**Frameworks & Libraries:** Vanta.js, React.js, Node.js, Express.js, TailWind CSS

**Developer Tools:** Git, GitHub, Docker, npm, Jupyter Notebook, Playwright, Jest, Postman, HTTPie, Jira, Railway

**Backend & API Technologies:** REST APIs, Express Routing, CRUD Operations, JSON

**Databases:** MongoDB, MySQL