

**DEBASHRESTHA NANDI**  
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Dynamic Computer Science student with a 4.0 GPA and experience in software development and tutoring. Skilled in problem-solving and technology-driven solutions. Ready to deliver efficiency and innovation as a dedicated contributor.

## EDUCATION

Bachelors in Computer Science, The City College of New York, Expected Graduation: Spring 2028 GPA:4.00

## RELEVANT COURSEWORK

Intro to Computer Science (C++), Discrete Math, Calculus I, Calculus II, Programming in Python, Data Structures and Algorithms, Speech.

## PROJECTS

**Route Optimizer:** Developed a multi-stop route optimization tool using React and Google Maps API to improve travel efficiency, with an interactive UI and real-time traffic analysis.

**Chat App:** Built a real-time chat application using React and Firebase, enabling secure authentication and database storage, while designing the frontend UI and integrating real-time messaging.

**Quiz App:** Developed a customizable exam application in Python, allowing users to create and take quizzes, with score tracking and question randomization for an interactive experience.

**Encryption Tool:** Created a text encryption and decryption program in C++ to ensure data security, using custom encryption algorithms to enhance data confidentiality.

**Careers Website:** Designed a job portal using Flask and MySQL, allowing users to post and apply for jobs, and developed backend logic for job filtering and application management.

**Adventure Game:** Built an interactive text-based adventure game in C++, featuring decision-based story progression, with custom game logic and user interactions.

**Pomodoro Timer:** Developed a productivity timer application in Python, implementing the Pomodoro technique to enhance focus and time management, with customizable work and break intervals

## EXPERIENCE

**Tutor – Bobby-Tariq Tutoring Center, Queens, NY (Dec 2023 – Sep 2024)**

- Taught 100+ students, improving their academic performance in math and standardized test preparation.
- Created personalized lesson plans and tracked student progress to enhance learning outcomes.

**Private Tutor – Remote (Mar 2023 – Present)**

- Tutoring 50+ students in math, programming, and test prep, tailoring lessons to individual needs.
- Helped students with Python and C++ programming, explaining coding concepts and problem-solving techniques.

## QUALIFICATIONS

**Technical Skills:** Python, C++, JavaScript, TypeScript, React.js, Flask, Django, SQL, MySQL, Firebase, Git/GitHub, HTML, CSS, API Development, Data Structures & Algorithms, Linux, Object-Oriented programming.

**Key Skills:** Problem-Solving, Communication, Analytical Thinking, Time Management, Collaboration