

# Tahmid Ahmed

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## EDUCATION

### Hunter College

Bachelors in Computer Science

New York, NY

Aug. 2022 – May. 2026(expected)

### Bronx High School of Science

Advanced Regents Diploma

Bronx, NY

Sep. 2018 – Jun. 2022

## SKILLS AND QUALIFICATIONS

- **Languages:** Java, Python, C/C++,  $\text{\LaTeX}$ , HTML, CSS, JavaScript, SQL, Docker
- **Libraries & Tools:** Pandas, Django, Flask, Bootstrap, OAuthLib, Tkinter, Redis, PostgreSQL, SQLite, React.js, Tailwind, React Query, Vite, Next.js, Supabase, Zustand

## EXPERIENCE

### Synergy Prep

Fullstack Developer & Program Director

Aug. 2021 – Present

Bronx, NY

- Developed an autonomous bot site using Python to facilitate exchange of 1000+ problems and optimization solutions for mathematical questions for SAT & SHSAT students, providing good practice for students
- Created a messaging API program using Python to send student progress to parents, fostering a trusting relationship
- Designed code to assign students problems based on categorized weakness through datasets accumulated yearly from student assessments
- Designed new technologies & worked on existing software to improve task automation, leading to a 12% increase in overall efficiency
- Led development of a novel curriculum that improved student scores by 43% in several batches of classes, leading to several students scoring above a 1500 on the SAT and above a 500 on the SHSAT

### Hunter College

Teaching Assistant

Aug. 2023 – Dec. 2023

New York, NY

- Facilitated an undergraduate computer science course, providing comprehensive support to the lead professor by managing classroom activities, and grading assignments, ensuring a structured and effective learning environment
- Actively assisted students during lectures by clarifying complex concepts, answering queries, and providing one-on-one support, significantly enhancing student comprehension and engagement with the course material
- Led lab sessions, conducted weekly tutoring sessions, and administered quizzes focused on reinforcing course concepts, practical programming skills, and problem-solving techniques

## PROJECTS

### PENCIL | React.js, Docker, Flask, OpenAI, Discord

Jun. 2023 – Present

- Created a website in Python using Javascript frameworks and libraries to answer student questions when tutors would not be available, answering with an accuracy of 97.6% for STEM related questions and 94.4% for reading comprehension and grammar
- Employed Docker to containerize the application, making it easier to deploy and scale
- Utilized Sentry.io to monitor and debug errors, which improved the stability of the application by 15%
- Integrated OpenAI's GPT-4o to provide answers to questions, using prompt engineering to improve focus on educational questions
- Leveraged by 100+ students, which improved average diagnostic scores by 15%

### Instalock | Valorant, React.js, Vercel, Serverless Flask, Supabase Postgres

Sep. 2023 – Oct. 2023

- Created a cloud-based web app using Python and Javascript to interact with various endpoints of the popular game Valorant, which displays user & team information, along with modifying some of these elements, such as changing "skins", locking "agents", and displaying user/teammate information
- Utilized Mantine UI to create a visually appealing and user-friendly interface
- Adopted by 200+ users, which improved accessibility of the game

### Mouseketool | Twilio, SQLite, Tkinter/Ttk

Sep. 2023 – Present

- Created a graphical program in Python using web frameworks to send reports to parents about student assignments and assessments via phone number with Twilio and emails using SMTPLib
- Designed to be customizable to fit the needs of the user, such as the type of assessments or custom logic for each variable inserted into the template
- Incorporated a complex logical system that would automatically regenerate necessary files between version upgrades