Tahmid Ahmed

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EDUCATION

Hunter College New York, NY
Bachelors in Computer Science *Aug. 2022 – May. 2026(expected)*

Bronx High School of Science Bronx, NY
Advanced Regents Diploma *Sep. 2018 – Jun. 2022*

SKILLS AND QUALIFICATIONS

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

EXPERIENCE

Synergy Prep Aug. 2021 – Present
Fullstack Developer & Program Director *Bronx, NY*

- Developed an autonomous bot site using **React** and **Flask** 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
- Analyzed data to assign students problems based on categorized weakness through datasets accumulated yearly from student assessments
- Designed various scripts & worked on existing software to improve task automation and data collection, 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 Aug. 2023 – Dec. 2023
Teaching Assistant *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 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 **Javscript** frameworks and libraries to answers 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 | *Next.js, Twilio, Vercel Postgres* Sep. 2023 – Present

- Created a graphical program in **Next.js** using web frameworks to send reports to parents about student assignments and assessments via phone number with **Twilio** and emails using Nodemailer
- Designed to be highly dynamic and customizable to fit the needs of the user, such as the type of assessments or custom logic for each variable inserted into the template
- Styled with Tailwind CSS to be visually appealing and user-friendly