

Shahad Hossain

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EDUCATION

Macaulay Honors College at the College of Staten Island

Sep 2024 – May 2028

- B.S., Computer Science & Math; Honors Student; 3.883 GPA

Ralph R. McKee Career & Technical Education High School

Sep 2024 – Jun 2028

- Software Engineering Student
- Valedictorian; 4.2 GPA

TECHNICAL SKILLS

Languages: C, C#, C++ Python, HTML, CSS, JavaScript, SQL, PHP

Libraries: React JS, NextJS, Django, Flask, jQuery, Bootstrap, PyTorch, Tensorflow, Keras

Developer Tools: Unity, Git, Github, Jupyter Notebook, Julia, Visual Studio Code, Firebase, Figma

PROFESSIONAL AND LEADERSHIP EXPERIENCE

Federal Work Study @ The Center for Global Engagement College of Staten Island

Oct 2024 – Jan 2024

Front Desk & Data Entry

New York, NY

- Provided customer service as the first point of contact for students, faculty, and international visitors, addressing inquiries and directing individuals to appropriate resources.
- Accurately maintained and updated student scholarship opportunities, ensuring compliance with institutional and funding guidelines.
- Assisted with organizing and promoting campus events related to international programs, enhancing cultural exchange and student participation.

Headstarter AI

Jul 2024 – Sep 2024

Software Engineer Fellow

New York, NY

- Built 5 AI-driven applications and APIs, utilizing Next.js, OpenAI, Pinecone, and Stripe API, achieving 99% accuracy and serving a user base of 400+
- Led frontend and backend development of projects, guiding a team of 4 engineering fellows to ensure successful product delivery
- Mentored by industry experts from Amazon, Bloomberg, and Capital One in agile methodologies, CI/CD practices, Git workflows and microservice architecture

NYC Department of Parks & Recs

Jul 2024 – Sep 2024

Sports & Facilities Trainer

New York, NY

- Coordinated and led diverse sports recreational activities for community members, ensuring safety and engagement for all members
- Managed the daily operations and maintenance of sports facilities for equipment ensuring compliance with health and safety regulations
- Assisted members in personalizing their fitness plans in order to foster a welcome and inclusive environment to promote physical well-being

24/7 Teach AI

May 2023 – May 2024

Software Engineer & President

New York, NY

- CEO in training for 24/7 Teach AI, a startup utilizing AI-driven applications for educational resources, ultimately developing Naomi a 24/7 tutor/guide for students
- Led backend development in Python for training a 99% responsive AI chatbot; generated infrastructure for dynamic web-scraping training
- Proposed idea for a personalized chatbot for schools to investors and major shareholders to showcase the capabilities of Naomi

Unity Game Developer**Dec 2021 – Sep 2022***Video Game Developer*

New York, NY

- Utilized C# in order to actualize intricate game mechanics and features to generate a robust and intuitive application experience
- Recreated nostalgic 2D video games in the unity engine such as Super Mario Brothers, Frogger, and Space Invaders
- Generated a 2D racing game as final project; ran competition for school community to beat the highest score

United Activities Unlimited, Inc**Jul 2021 - Aug 2022***Data Analyst*

New York, NY

- Analyzed a correlation between domestic violence and varying life circumstances such as income, race, gender, etc
- Voiced concerns and solutions for issue through a social media campaign; designed a presentation shown to 1000+ students
- Awarded best group in our category for connecting domestic violence to the widest audience of people possible

PROJECTS AND AWARDS

24/7 Teach Success Coach Naomi; Distinction for AI Development**Aug 2023***24/7 Teach Software Engineer*

- Developed Naomi AI: an instant tutor for homework assistance, college and career guide, and a source of social-emotional support
- Led a cross-functional team of engineers as the product president, overseeing project timelines, coordinating tasks, and driving the development of Naomi AI
- Engineered a robust application architecture utilizing Flask for backend services, Firebase for scalable data management, and JavaScript for a responsive frontend

2nd Place; 2024 Annual Citywide Graphics Arts Competition**May 2024***Website Developer @City College of Technology*

- Competed against top NYC website developers to be selected as a finalist for the citywide competition at New York City College of Technology
- Utilized figma to develop a cohesive UX/UI design and then implemented the design using vanilla HTML, CSS & JavaScript without access to the internet
- Led team to win 2nd place at the final competition for website design by actualizing a robust and intricate restaurant application experience

Excellent Bill Proposal: School Website**Sep 2022***Freelance Website Developer*

- Created a revitalized school website using HTML, CSS, & JavaScript in order to allow students to dynamically interact with the website to gain important information
- Presented website to principal and school officials to gain funding in order to advocate the importance of students learning effective website development
- Created two new software engineering internships associated with Ralph R. McKee for website development for future students

New York State Scholarship for Academic Excellence**May 2024***Ralph. R. McKee Student*

- Awarded \$1500 scholarship for having the standardized test grades in my class; maintained consistent and excellent academic record throughout all four years

COURSES

Harvard: Introduction to Computer Science (CS50)**Sep 2022***Computer Science Student*

- Gained foundational knowledge in computer science concepts, including algorithms, data structures, web development, and software engineering principles

Unity Development Certification Exam**May 2023***Game Development Student*

- Acquired skills in game development and interactive media, mastering Unity's interface, scripting in C#, and building cross-platform applications for diverse digital environments