Tanvir Islam

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EDUCATION

The City College of New York   **New York City, New York**
Bachelor of Science in Computer Science   *Expected Graduation: May 2026*
- o **Related Coursework:** Computer Systems, Calculus, Discrete Mathematics, Data Structures

EXPERIENCE

Software Engineer Intern
Ron Shipmon   *July 2024 – Present*
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Software Engineer Fellow
Headstarter   *July 2024 – Present*
- Will build 5+ AI apps and APIs using NextJS, ReactJs, Firebase, AWS, and StripeAPI
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns

Undergraduate Student Research
City College of New York   *July 2024 – Present*
- Developed AI-enabled UAS for wildfire management, using Python and Raspberry Pi for real-time data collection and analysis, enhancing vegetation fuel measurement and fire monitoring.
- Applied ML, DL, and RL algorithms for wildfire detection, classification, and predictive modeling, improving risk assessment and management strategies across all wildfire stages.

Software Engineer Bootcamp   **New York City, New York**
QCC   *February 2024 – May 2024*
- Completed QCC's 100-hour Software Engineering Micro-Credential Career Track in Web Development, acquiring expertise in **Python, JavaScript, HTML, CSS, and PostgreSQL**, and a group project.
- Integrated a robust healthcare data management system using FastAPI for RESTful APIs and SQLAlchemy ORM, paired with a ReactJS interface. Leveraged Pydantic for data serialization and React hooks for efficient state management. Automated testing and documentation ensure reliability and usability.

PROJECTS

Patient Service Management   **New York City**
- Developed a robust healthcare data management system with **FastAPI** for backend **RESTful API** creation and **ReactJS** for frontend UI engineering.
- Implemented **SQLAlchemy** ORM models for data integrity and accurate representation, alongside **Pydantic** models for optimized data serialization.
- Engineered a modular **ReactJS**-based UI architecture with efficient state management and enhanced interactivity using React hooks and functional components.

ACTIVITIES

Soccer Club - Deulgram Tigers FC   **Queens, New York**
Founder/Captain   *July 2019 – Present*
- Fostering skill development, camaraderie, and competition. Led over 20 kids age 15-20 to several championship wins, and actively participating in community fundraising tournaments.

Content Creator   **Brooklyn, New York**
@tancodes   *October 2023 – Present*
- Developing engaging content on TikTok, garnering a following of **9000+ users and 1,600,000 likes**, while providing valuable resources and insights on Computer Science and Software Engineering.
- Utilizing TikTok as a digital platform to document personal experiences, share educational content, and inspire fellow students and aspiring professionals in the field.

SKILLS

Languages/Frameworks: C++, Python, HTML/CSS, JavaScript, React
Developer Tools: Git/Github, VS Code
Soft Skills: Problem-Solver, Leader, Collaborative, Organized, Communicative, Diligent, Goal-Oriented, Adaptable, Bilingual