

Tawhid Zaman

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EDUCATION

New York University – College of Arts and Science | New York, NY

Class of 2026

Bachelor of Arts in Computer Science

- **Relevant Coursework:** Computing in Python and Java, Discrete Mathematics, Probability & Statistics, Data Structures & Algorithms, Software Engineering, Agile Software Development & DevOps

EXPERIENCE

Volunteers of America-Greater New York — IT Engineer

July 2025 – Present

- Engineered **automation scripts** and utilized command-line tools to streamline **system provisioning** and troubleshooting, significantly reducing manual configuration overhead.
- Applied rigorous **root-cause analysis** to diagnose and resolve complex software, network, and hardware issues across Windows and macOS, ensuring **99%+ system availability**.
- Managed the **technical incident lifecycle** by documenting resolutions and procedures in a centralized ticketing system, translating complex technical blockers into actionable solutions for **non-technical stakeholders**.

PROJECTS

Raise The Bar — Award-Winning AI Rap Battle Engine

Feb. 2026

- Awarded **1st Place for Best Beginner Hacks** and **Best Use of Featherless AI** out of hundreds of participants at the **Columbia University DevFest 2026 Hackathon**.
- Implemented a **multi-model AI pipeline**, integrating **Featherless** and **K2 reasoning models** to power a virtual judge panel that transcribes and evaluates real-time, two-player rap battles for flow, wordplay, and delivery.
- Built a high-performance **React/TypeScript** app with **Supabase (PostgreSQL)**, orchestrating **ElevenLabs** for low-latency audio transcription and voice feedback.

SynthLearn — AI-Powered Study Platform

Dec. 2025

- Architected a full-stack AI platform using **React (Vite) / Node.js**, leveraging **Gemini Pro** and a **RAG pipeline** to transform unstructured PDFs into interactive study tools and context-aware chat.
- Engineered a resizable workspace with a **headless TipTap editor** and custom document viewer, utilizing **optimistic UI** patterns to achieve **sub-100ms** perceived latency for AI interactions.
- Deployed a secure, production-ready pipeline via **Vercel** and **Render** utilizing **Multer/pdf-parse** and custom **Express** middleware, with **PostgreSQL (Supabase)** persistence and **JWT/bcrypt** authentication.

Habita — Roommate Management Platform

Nov. 2025

- Led a cross-functional team as **Lead Developer** and **Scrum Master**, facilitating **Agile/Scrum ceremonies** to architect a scalable roommate platform for task and expense management.
- Orchestrated the UI/UX lifecycle by producing mobile-first app maps, **wireframes**, and interactive **Figma prototypes** to validate user flows prior to implementation.
- Deployed a containerized **React/Express/MongoDB** app with **JWT auth**, automating **CI/CD** pipelines via **Docker** and **GitHub Actions** for production delivery to **DigitalOcean** with **Mocha/Chai** testing.

LEADERSHIP

- **Computer Science Mentor, NYU** | Guided students in **DSA/Java/Python** reviews to promote clean code.
- **Treasurer, NYU Bangladeshi Student Assoc.** | Managed finances and fundraising for **200+ members**.
- **Director of Events, NYU Shuruq** | Coordinated logistics to execute large-scale cultural events.

SKILLS

Languages & Frameworks: Java, Python, JavaScript (ES6+), React (Vite), Node.js, Express, Flask, Mongoose, SQL, HTML/CSS, Tailwind.

AI & Infrastructure: RAG (Retrieval-Augmented Generation), Gemini/OpenAI APIs, Docker (Compose), CI/CD (GitHub Actions), DigitalOcean, MongoDB, PostgreSQL, Supabase.

Testing & Process: TDD (Mocha, Chai, Pytest), Agile/Scrum, Figma (UI/UX), JWT/Auth, Data Processing (PDF/Audio), Git, Linux.