

Hasib Rahman Shaif

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EDUCATION

Baruch College, Weissman School of Arts and Sciences

Expected Graduation: 05/2026

Bachelor of Science in Computer Science

Minor in Mathematics, Minor in Statistics & Quantitative Modeling

Cumulative GPA: 3.4/4.0

Dean's Honors List (05/2023, 09/2023, 01/2024)

Relevant Courses: Computer Science I & II, Data Structures & Algorithms, Calculus I & II, Discrete Math, Operating Systems, Computer Architecture, Cybersecurity, Database Management Systems, Computer Networking

EXPERIENCE

Metropolitan Transportation Authority – Technology Analyst Intern

01/2025 – Present

- Overhauled the payroll adjustment process for **hundreds of employees** by replacing a manual, paper-based system with an integrated digital timesheet platform, significantly **reducing processing time** and **resource usage**.
- Implemented automation to ensure accurate and timely employee payments, leveraging a **PostgreSQL** database for secure and policy-compliant **data management** and role-based **access control**.
- Developed an intuitive **Next.js** interface with **Node.js** backend services, streamlining timesheet adjustment requests and integrating with the MTA's payroll infrastructure for **scalability** and **long-term performance**.

Pulp Internet – Software Engineering Intern

09/2024 – Present

- Redesigned and developed Pulp's website (pulpinternet.com), refactoring **Next.js** and **TypeScript** codebases to resolve **300+ type inconsistencies**, enhance scalability, eliminate runtime errors, and strengthen Pulp's brand perception.
- Pioneered the development of "Suade," a debate-focused, feature-rich app built with **React Native**, integrating **AWS IVS** for interactive debate livestreams, **Neo4j** for user profile management, and leveraging Pulp's proprietary **AI algorithms**.
- Secured a **\$5000 investment** by creating compelling product demos for showcases, partnering with the **data science** team using **Agile** to visualize **machine learning data** and boost user engagement with complex **datasets**.
- Integrated **machine learning pipelines** by writing **AWS Lambda** functions and using **S3** for data storage, enabling the transition of resources to a **cloud-native architecture** and laying the foundation for future scalability.
- Enhanced user interactivity by building **15+ data visualizations** with **D3.js** and **Observable**, incorporating 3D models via **Spline**, **Blender**, and **Three.js**, ensuring device and cross-browser responsiveness.

Northeast Big Data Innovation Hub TDSP – Data Science Researcher

12/2024 – 01/2025

- Cleaned and processed **2M+ NYC traffic incident records** with **Python** and **Pandas** to develop road safety recommendations.
- Conducted exploratory **data analysis**, assessed **data ethics**, and leveraged **Matplotlib** and **Seaborn** for visualizations.
- Identified accident hotspots through **time series** and **geospatial analysis**, supporting targeted interventions.

CodePath – Tech Fellow & Teaching Assistant

05/2024 – Present

- Mentored **200+** students in **Python** and **Leetcode problem-solving** for technical interviews (TIP 101).
- Guided **150+** students in building personal websites with **HTML**, **CSS**, **JavaScript**, and **Bootstrap** (WEB 101).

PROJECTS

Portfolio Website | Skills: Next.js, React.js, TypeScript, Motion, Tailwind CSS, shadcn/ui

- Created a **responsive personal hub** to showcase skills, projects, education, experiences, and contact information.

GitHub repository: <https://github.com/hasibshaif/Portfolio-Website>

AI Resume Tailor | Skills: Python, Flask, OpenAI, AWS S3, IAM, Next.js, TypeScript, Tailwind CSS, Motion, Render, Vercel

- Developed an **AI-powered resume tailoring platform** leveraging **Python**, **Flask**, and **OpenAI's API**, enabling dynamic resume customization based on job descriptions.
- Designed a modern **Next.js**, **TypeScript**, and **Tailwind CSS frontend**, featuring animated interactions using **Motion**.
- Implemented **secure file management** with **AWS S3/IAM** and **scalable deployment pipelines** using **Render** and **Vercel**.

GitHub repository: https://github.com/hasibshaif/tAIlor-AI_Resume_Tailor

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Baruch Full Stack (BFS) – Co-Founder

01/2025 – Present

- Founded Baruch's premier project-driven computer science club, cultivating growth for aspiring tech professionals.
- Directed development of applications for other student organizations, businesses, and other Baruch-affiliated entities.

Technology Leadership Development Program (TLDP) – Technology Student Leader

08/2024 – Present

- Selected as **1 of 35 Baruch students** for a year-long enrichment program to hone technical and soft skills with professionals.
- Gained hands-on experience with tools like **Power BI** and **Big Data**, working on technical projects with **Python** and **SQL**.

SKILLS

Programming Languages/Frameworks: Python, JS, TS, React.js/React Native, Next.js, C++, SQL, HTML, CSS, Bootstrap

Tools/Platforms: Git, GitHub, AWS, MongoDB, Langchain, Pandas, Matplotlib, D3, OpenAI, Excel, Powerpoint, PowerBI, Tableau

Design: Figma, Spline, Blender, Adobe Photoshop, Adobe Premiere Pro, DaVinci Resolve, Canva

AWARDS & RELEVANT CERTIFICATIONS

Forage - [JPMorgan SWE Job Simulation](#); **Google** - [Cybersecurity](#); **Harvard** - [CS50x](#); **CodePath** - [WEB 101](#);