

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

Pulp Internet – Software Engineering Intern

09/2024 – Present

- Redesigned and developed Pulp's website, 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** database 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** and **Jira** for project management to visualize machine learning data and boost user engagement with complex datasets.
- Integrated machine learning pipelines by writing **AWS Lambda** functions, using **S3** for data storage, and **EC2** for application hosting, enabling the transition 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.

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).

Metropolitan Transportation Authority – Technology Analyst Intern

12/2024 – 02/2025

- Collaborated with cross-functional teams to overhaul the payroll adjustment process for **hundreds of employees**, replacing a manual, paper-based system with a digital timesheet platform, significantly reducing processing time and resource usage.
- Implemented data-driven automation to ensure accurate and timely employee payments, designing and 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 using **APIs** for scalability and long-term performance.

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.

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 premiere project-driven software engineering 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**, 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, Jupyter, OpenAI, Excel, 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](#);