Hasib Rahman Shaif

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EDUCATION

Baruch College, Weissman School of Arts and Sciences   *Expected Graduation: 05/2027*
Bachelor of Science in Computer Science
Minor in Mathematics, Minor in Statistics & Quantitative Modeling
Cumulative GPA: 3.4/4.0   **Dean's Scholars 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 (MTA) – Software Engineering Intern   *01/2025 – Present*
- Collaborated with a cross-functional team to develop an internal **payroll automation** application for use by hundreds of employees, cutting processing time by **50%** through tracking of adjustments and justifications for interns and managers.
- Enhanced **data security** and **compliance** by designing and implementing a **PostgreSQL** database, enabling seamless storage and retrieval of payroll adjustment records while meeting audit and organizational data policy requirements.
- Built an intuitive **React.js** interface to streamline adjustment reviews and enhance transparency for **500+** users.
- Optimized performance and scalability by engineering **Node.js** backend services that integrated with existing payroll systems.

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**.
- Wrote **AWS Lambda** functions for integrating machine **learning pipelines,** and used **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** and incorporating **3D models** via **Spline**, **Blender**, and **Three.js**, ensuring device and cross-browser responsiveness.

Northeast Big Data Innovation Hub TDSP – Data Science Researcher   *01/2025 – Present*
- 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.
- Designed and presented a virtual poster board to communicate findings to stakeholders through compelling **data storytelling**.

CodePath – Tech Fellow & Teaching Assistant   *05/2024 – Present*
- Mentored **200+** students in **Python** and **Leetcode** problem-solving for technical interviews (TIP 101).
- Guided **100+** 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** for the GPT **large language model**, enabling dynamic resume customization based on job descriptions.
- Designed a modern **Next.js/TypeScript** frontend, incorporating Tailwind CSS and 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

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**, **Big Data**, and **VCS** while enhancing **SQL** and **Python** skills through **technical projects** led by professionals from **Amazon**, **Google**, and **Accenture**.
- Participated in weekly workshops to advance **interpersonal**, **professional**, and **leadership** capabilities.

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, Selenium, D3, Firebase, OpenAI, Pinecone, Excel, PowerBI
Design: Figma, Spline, Blender, Adobe Photoshop, Adobe Premiere Pro, DaVinci Resolve 17, Canva

AWARDS & RELEVANT CERTIFICATIONS

Forage - JPMorgan SWE Job Simulation; **Google -** Cybersecurity; **Harvard -** CS50x; **CodePath -** WEB 101;