

# Hamim Choudhury

[hamimc232@gmail.com](mailto:hamimc232@gmail.com) | [linkedin.com/in/hamimc/](https://www.linkedin.com/in/hamimc/) | [github.com/hamim23z](https://github.com/hamim23z) | <https://hchou.vercel.app/>

## EDUCATION

### The City College of New York - CUNY

Bachelor's of Science in Computer Science

New York, NY

Expected Graduation Date - May 2026

## SKILLS

**Languages:** HTML, CSS, JavaScript, TypeScript, Java, Python, SQL

**Libraries/Frameworks:** Node.js, Next.js, React, Vue, MUI, jQuery, Flask

**Platforms/APIs:** Firebase, Stripe API, OpenAI, Llama API, NextAuth, StackAuth

**Developer Tools:** Git, GitHub, Visual Studio, PyCharm, Linux, Azure, Docker

## EXPERIENCE

### Software Engineer Intern

New York, NY

Jul. 2024 - Jan. 2025

New York City Department of Records

- Engineered a Python-based website monitoring system deployed with Docker on Azure, increasing service uptime by 15% and reducing false positives by 40% through automated issue detection and a fix for critical services.
- Developed a custom PDF compression and optimization script using Ghostscript and JavaScript, achieving a 60% reduction in file sizes and improving page load times for web-based document delivery systems.
- Revamped the company's internal website using Jinja, Javascript, HTML, and CSS to modernize the platform and improve user experience. Delivered a fully responsive and efficient design that boosted internal user satisfaction.

### Software Engineer Intern

New York, NY

Jun. 2023 - Oct. 2023

New York City Department of Design and Construction

- Developed and implemented a Python-based Hash File system to efficiently identify Surface Laptop device IDs, reducing vulnerability assessment time and improving overall responses.
- Managed a cross-functional team in executing a major software system rollout, utilizing project management tools to coordinate device updates and software installations, resulting in a 25% reduction in expected downtime.
- Led the identification of vulnerabilities, performed repairs, updated hundreds of devices, and deployed new software, alongside creating user and support accounts on laptops and mobile devices.

### Sneaker Information Developer

New York, NY

Jul. 2021 - Jun. 2023

Trademark Services

- Designed a sophisticated multi-tiered Discord bot using Python and JavaScript to provide instant updates on sneaker and clothing releases, including essential details like location and timing.
- Optimized the software platform by integrating new features that led to an increase in monthly subscriptions and improved customer retention through valuable user insights.
- Facilitated pull requests, code reviews, and stress testing to ensure the quality of data throughout the SDLC.

### Web Development Intern

New York, NY

Oct. 2020 - Feb. 2021

Fyllan

- Created an interactive reservation system with real-time availability updates using JavaScript and AJAX, leading to a 30% increase in online bookings for Fyllan restaurants.
- Integrated third-party APIs using JavaScript's fetch API, enhancing website functionality with features like real-time restaurant updates and social media feeds.
- Collaborated with senior developers to design and implement interfaces, merging feedback to refine the UI/UX.

## PROJECTS

### Smart Study | Next.js, React, Javascript, Firebase, OpenAI - [Project](#)

Aug. 2024 - Present

- Engineered an AI-powered system using OpenAI's API to generate custom study materials for college courses, improving personalized learning experiences for students by aligning content with specific majors.
- Implemented advanced web scraping algorithms to extract data from CUNY websites, building a comprehensive academic database of over 1,000 entries, including degree requirements, prerequisites, and professor information.
- Launched an innovative quiz and worksheet generator paired with a Pomodoro timer, enhancing the study process and supporting effective progress evaluation.

### ChronicleAI | Next.js, React, Javascript, Firebase, OpenAI, Pinecone - [Project](#)

July. 2024 - Present

- Collaborated in a team of three to build an interactive support agent using Next.js through the integration of a custom RAG pipeline leveraging OpenAI and Pinecone to address engineering inquiries.
- Developed a web scraper to automate data extraction and updates from RMP, enhancing data retrieval efficiency by storing information in a Pinecone vector database and leveraging LangChain with OpenAI GPT-4 for analysis.
- Integrated Stack Auth to streamline user authentication and management with enhanced security.