

NILOY SAHA

sahaniloy389@gmail.com | (347)-609-8284 | Portfolio: <https://niloysaha84.github.io>
LinkedIn: <http://www.linkedin.com/in/niloysaha35> | GitHub: <https://github.com/NiloySaha84>

SUMMARY

Computer Science student and Full-Stack Developer skilled in building **scalable, production-ready web systems** using **Next.js, Node.js, and cloud infrastructure**. Delivered **80% faster workflows** and **40% higher user engagement** across deployed applications through **backend optimization, automation, and AI integration**. Adept at designing **efficient, maintainable software systems** that enhance reliability and performance.

EDUCATION

Hofstra University

B.S. in Computer Science

New York, USA

Expected Graduation, May 2027

- o **GPA:** 3.46/4.00, *Dean's List*
- o **Related Coursework:** Data Structures & Algorithms, Computer Architecture & Programming, Software Engineering, Object-Oriented Programming, Applied NLP and Text Mining, Operating Systems

EXPERIENCE

IT Systems Support Engineer (Student Role)

Maurice A. Deane School of Law at Hofstra University

New York, USA

Sept 2025 - Current

- Automated log analysis and diagnostics in Python with Pandas, cutting resolution time by **15%**.
- Maintained **99% uptime** across 50+ endpoints through proactive monitoring and scripting.
- Developed a searchable **SQL-based knowledge base**, reducing repeat technical issues by **20%**.
- Implemented automated **TCP/IP and DNS testing scripts**, reducing manual network checks by **30%** and improving connectivity reliability.

PROJECTS

EduFlow AI | GitHub: https://github.com/NiloySaha84/Ai_Study_Companion | Live: <https://ai-study-companion-eight.vercel.app/>

- Developed a real-time AI tutor using **Next.js 15**, **VAPI.ai**, and **GPT-4**, achieving **<100 ms latency**.
- Raised learner engagement by **40%** through customizable AI companions and session analytics.
- Implemented CI/CD deployment on Vercel with **Supabase** and **Clerk Auth** for secure scaling.
- Engineered an event-driven backend supporting concurrent sessions with **99.9% uptime** and scalable cloud deployment.

Smart Syllabus Calendar Sync | GitHub: <https://github.com/NiloySaha84/Syllabus-Calendar> | Live: <https://syllabus-calendar-navy.vercel.app/>

- Built a **Next.js 14** app that converts syllabi into interactive calendars, saving students **80%** of manual entry time.
- Integrated **Google OAuth2 + ICS export** for calendar sync used by 100+ students.
- Optimized **React Big Calendar UI** with **Tailwind CSS**, improving usability and engagement by **40%**.
- Implemented serverless deployment with **auto-scaling on Vercel**, ensuring consistent **low-latency performance**.

SKILLS

Languages: Python, Java, TypeScript, SQL, C++, Dart, Bash

Frameworks: React.js, Next.js, Node.js, Spring Boot

Databases: PostgreSQL, MongoDB, Supabase

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Vercel, CI/CD Pipelines

Core Competencies: RESTful APIs, Data Structures & Algorithms, OOP, System Design, NLP

ACTIVITIES AND LEADERSHIP

HOFFSTRA C.O.D.E

Member

New York, USA

Sept 2024 - Current

- Ranked **Top 5 of 20+ teams** in a hackathon for developing a rapid web automation tool using **Node.js and React**.
- Contributed to open-source repositories by reviewing **PRs** and enforcing **GitHub CI workflow** standards.
- Mentored peers on **AI tools and full-stack design patterns**, leading workshops and code reviews.