

Samin Khan

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EDUCATION

The City University of New York (CUNY) Queens College
B.A. in Computer Science, Minor in Applied Mathematics

New York, NY
May 2026

PROFESSIONAL EXPERIENCE

Brandywine Chemical Works

Software Engineer Intern

Remote

Sep 2026 – Present

- Build tools and dashboards to track specialty chemical operations, scoping and shipping features directly with the founder.
- Automate reporting workflows and data handling processes to improve operational efficiency.
- Design and improve frontend and backend systems to support new product requirements and strengthen digital infrastructure.
- Develop lightweight engineering solutions using real operational data and business constraints to keep production systems reliable.

Extern, NY Racing

Sports Analytics Extern

Remote

Jun 2026 – Aug 2026

- Analyzed NASCAR Cup Series race and sponsorship data across 15 races, 568 records, 50 drivers, and 260+ sponsors, building a weighted scoring model to estimate sponsorship visibility ROI.
- Built, cleaned and standardized structured datasets using Python and pandas, combining race performance, sponsor exposure, and digital engagement metrics from Reddit and YouTube to quantify the relationship between on track performance and sponsor visibility.
- Conducted correlation analysis and statistical testing on sponsor, team, race, and driver data to identify what drives sponsor visibility and support repeatable analysis.
- Developed sponsor visibility rankings and translated analytical findings into business facing insights for sponsorship strategy.

Unadat

Product Management Intern

Brooklyn, NY

Jun 2022 – Aug 2022

- Restructured cross functional workflows across 3 Agile teams, cutting delivery timelines by 25% without reducing scope and earned recognition as a top performer by the CEO.
- Analyzed financial and user data to identify product opportunities, partnering with stakeholders to define product requirements, enhance product quality, and drive high impact decisions that increased user engagement by 18%.
- Built user dashboards using SQL and PHP centralizing key metrics and pricing trends, reducing decision making cycles from days to hours.
- Collaborated with UX/UI designers, backend developers, and the CEO to refine product features, improve usability and aligning development with user needs.

CUNY Building Performance Lab

BPL Intern

New York, NY

Jun 2019 – Aug 2019

- Analyzed Con Edison energy consumption data from NYC public buildings, producing optimization reports that cut emissions by 50% and reduced operational costs by 12% per facility.
- Developed visualizations using building automation systems, identifying electric and gas usage inefficiencies and streamlined compliance reporting across 5+ facilities.
- Modeled fuel supply and capacity scenarios, providing engineers with datasets that identified \$50k+ cost reduction opportunities.
- Presented performance analytics to licensed engineers showcasing energy optimization strategies and efficiency initiatives.

PROJECTS

Signal Watch | [Github](#) | [Demo](#)

HackKnight 2026

Next.js, TypeScript, PostgreSQL, Google Gemini API, SEC EDGAR API, XBRL API, Vercel

Oct 2026

- Built a full stack credit research platform that generates a fully sourced credit memo from a stock ticker using SEC filings, XBRL, financial data, and Google Gemini API.
- Created an LLM validation layer that checks every Gemini extracted quote against the source filing and automatically removes any generated statement with unsupported figures.
- Built a rate limited, cached SEC data pipeline that normalizes XBRL financials across reporting periods and streams progress updates to the client in real time.
- Stored company relationships as a graph in PostgreSQL and built an interactive React Flow map and a rules based watchlist that flags companies needing analyst attention.

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, TypeScript, C++, PHP, HTML/CSS

Frameworks & Libraries: React, Next.js, Node.js, Flask, FastAPI, Tailwind CSS, Gemini API, pandas, NumPy

Data & Analytics: PostgreSQL, MySQL, RestAPI, SEC Edgar API, XBRL API, Excel, Power BI, Tableau, Financial Modeling

Cloud & Tools: AWS, Vercel, Docker, Git, GitHub, Jira, Agile/Scrum