

Vighanesh Gaund

 vighanesh2 |  vgaund |  vgaund@nyit.edu |  +1 (201) 893-7350

EDUCATION

(GPA: 3.96)	M.S., Computer Science at New York Institute of Technology	(May 2026)
(GPA: 3.96)	B.S., Computer Science at New York Institute of Technology	(May 2025)
	Minor in Mathematics	

SKILLS

Programming Languages	Java, JavaScript, Python, TypeScript
Databases	Firebase, MongoDB, MySQL, Supabase
Frameworks	React, React Native, Flask, Electron, Next.js
Tools & APIs	Stripe, OpenAI, Gemini API, Deepgram, Web Scraping, Apify
Hackthon Wins	BostonHacks, NYIT CyberHacks, NYIT Game Design, NYIT IEEE Hackathon
Leadership Roles	Vice-President of Campus Activities Board, Graduate Assistant, Teaching Assistant

WORK EXPERIENCE

Software Engineer, Radiant Global Fund May 2025 - Aug 2025

- Developed a **stock analysis** dashboard supporting 500+ securities by **web scraping Yahoo Finance and Investing.com**, storing data in MongoDB, and implementing technical indicators (Support/Resistance, Fibonacci, Gann Theory) using **Excel formulas integrated into the application**, increasing data retrieval speed by 25%
- Engineered real-time indicator calculations to accelerate analysis accuracy by 30% for technical workflows, delivering actionable market insights

Software Engineer Intern, StudyFetch Nov 2024 - May 2025

- Built a **social media analytics tracker** for a marketing team managing 600K+ Instagram followers and 100M+ monthly views using **Next.js, TypeScript, MongoDB, and Apify API** for data collection; implemented MagicLink authentication for secure access and shaden UI with custom charting for campaign performance visualization, enabling data-driven decision-making at scale
- Created **interactive Three.js educational games** and **Rough.js diagram generators** that transform user notes into engaging learning experiences, deployed on the StudyFetch platform serving **1M+ monthly active users**
- Developed an **AI-powered comic generator** using **OpenAI image API** by designing a custom JSON schema to structure learning content and generate illustrated comic strips from text prompts (e.g., “teach me about the industrial revolution”), making complex subjects visually engaging for millions of students; deployed on Vercel for scalability

RESEARCH EXPERIENCE

Undergraduate Research and Entrepreneurship Program (UREP) Sep 2023 - May 2024

- Conducted comprehensive literature reviews and developed a **Python program utilizing the RoBERTa model** for detecting AI-generated content in creative writing, subsequently presenting findings to industry experts to highlight challenges and propose solutions
- Spearheaded a case study with college professors identifying AI content detection challenges, achieving a **30% reduction in data processing time** through innovative strategies; secured a **\$500 research grant** and advanced towards robust detection of AI-generated texts

PROJECTS

Zentro – Stock Analysis Platform — [Link](#) React, Firebase, TypeScript, Yahoo Finance API

- Engineered an advanced market **analytics** dashboard leveraging **Yahoo Finance API** for real-time data and implementing Fibonacci sequences and Gann theory algorithms to decode complex price patterns, delivering actionable insights to 30 active traders
- Optimized **data fetching and Firebase queries** with intelligent caching to achieve sub-second update latency on support/resistance levels and trade signals, improving trader reaction time by 40% in live sessions

Centipede – Credit Card Optimization Platform — [Link](#) Flask, React Native, MongoDB, Stripe

- Architected a unified **payment platform** that aggregates multiple credit cards, stores reward metadata in **MongoDB**, and uses **logic-based algorithms** to automatically select the optimal card per transaction by comparing all rewards and prioritizing points in case of ties, maximizing cashback and rewards through real-time decision optimization
- Developed a scalable **Flask backend** integrated with **Stripe API** for secure payment processing and reward calculation, winning **Best Financial Hack (Capital One Track)** for innovative fintech solution design