

# Suraj Chaudhary

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## EDUCATION

### St. Joseph's University, New York City

Expected Graduation: May 2028

Bachelor's in Mathematics and Computer Science (Honors)

GPA: 4.0

- **Coursework:** Data Structures & Algorithms (Java), OOP, Discrete Mathematics, Calculus, Stats & Probability

## TECHNICAL SKILLS

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

**Machine Learning / AI:** PyTorch Geometric, Graph Neural Networks (GraphSAGE), Gemini 2.0, Groq (Llama 4 ScoutVision AI), NLP (sentiment analysis)

**Frameworks:** React 19, Next.js 16, Tailwind CSS 4, Prisma, Node.js

**Cloud / Infrastructure:** AWS (EC2), PostgreSQL (Supabase, Neon), Vercel (serverless/edge), Git

## TECHNICAL PROJECTS

### LemonAid: Lemontree InsightEngine | [\[GitHub\]](#), [\[Live\]](#)

Next.js 15, TypeScript, PostgreSQL, Prisma, Gemini 2.0, PyTorch

- **Awarded 1st Place** (Morgan Stanley Code to Give Hackathon) for a full-stack data intelligence platform that transforms NYC food access data into actionable insights for 5 stakeholder personas
- Engineered a machine learning pipeline — a **Graph Neural Network (GraphSAGE)** — in Python to identify “Service Gaps,” clustering resources into archetypes based on US Census poverty data and spatial resource density
- Integrated **Vision AI (Groq Llama 4 Scout)** and **Gemini 2.0** to automate real-time pantry inventory assessment from community photos, plus NLP-based sentiment analysis of unstructured feedback
- Built an interactive GIS map using viewport-based fetching and choropleth layers to visualize equity gaps across NYC neighborhoods

### The Profile Hub | [\[GitHub\]](#), [\[Live\]](#)

Next.js 16, TypeScript, React 19, PostgreSQL, Prisma, NextAuth v5

- Architected a full-stack web application — a contact-sharing platform — with a distributed, serverless PostgreSQL backend, implementing a WebSocket adapter to resolve Vercel edge runtime binary limitations
- Resolved OAuth “server error” race conditions by engineering a custom redirect chain using URL search parameters

### AutoWall X | [\[GitHub\]](#), [\[Mac App Store\]](#)

Swift, macOS SDK, LaunchAgent APIs

- Developed and published a native macOS menu bar utility to the Mac App Store to automate system wallpaper transitions based on OS theme changes
- Interfaced directly with NSWorkspace APIs and implemented background “launch-at-login” daemons based on active user feedback

## ENGINEERING EXPERIENCE

### Technical Intern, DeSales Media Group

June 2026 - Present

- Engineered a large-scale, automated Python data migration pipeline integrating Sony Ci and Iconik REST APIs, achieving a **100% sync success rate** while migrating **15TB+** of legacy unstructured media across distributed cloud infrastructure
- Developed a localized Python daemon to automatically detect, structure, and sync data from newly mounted physical drives directly to cloud storage, **saving teams 20+ hours** per week
- Optimized backend data workflows and infrastructure, eliminating manual transfer bottlenecks and enabling a **40% increase** in daily digital content production

### Founder and Lead Developer, High Approach Pvt. Ltd.

Oct 2021 - Jun 2024

- Engineered and scaled an [educational platform](#), achieving **70,000+ monthly page views**
- Optimized site architecture and SEO to rank **5,300+ keywords** on page one of Google

### STEM (Math & CS) Peer Tutor, Academic Center, St. Joseph's University

August 2025 - Present

- Tutor **20+ students weekly** in Java (OOP) and Data Structures, resulting in a **letter-grade increase** for regular attendees

## Leadership & Awards

- **SURF Fellow:** Awarded the competitive Summer Undergraduate Research Fellowship ([SURE](#)) to conduct an independent study on the intersection of UI accessibility, color blindness, and smartphone optimization (May 2026).
- **Selected Mentee, Code2Career (V-SWEP):** 10-week 1:1 technical mentorship with a Google Software Engineer, focused on advanced data structures & algorithms, system design, and technical interview preparation (Summer 2026)
- **President, SJNY Computer Club:** Secured a 50% budget increase, drove 47% participation growth, and received the 2025/26 Emerging Leader Award for cross-campus technical initiative.
- **Winner, ACM Hackathon:** 1st Place for “[Hack n Hoard](#)”; optimized event loops for 60FPS performance (Apr 2025)