

# Suraj Chaudhary

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## Education

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

Expected Graduation: 2027

*Bachelor's in Mathematics and Computer Science (Honors)*

GPA: 4.0

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

## Technical Skills

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

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

**Tools/Cloud:** AWS (EC2), PostgreSQL (Neon), Git, GitHub, Vercel, NextAuth v5, Zod, Selenium

## Technical Projects

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**The Profile Hub** | [[GitHub](#), [Live](#)] | *Next.js 16, TypeScript, React 19, PostgreSQL, Prisma, NextAuth v5*

- Architected a full-stack contact-sharing platform with a 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
- Built a glassmorphism UI with Tailwind CSS 4, featuring dark mode custom variants and CSS-based aurora animations

**KoreaTelecom Scraper** | [[GitHub](#)] | *Python, BeautifulSoup, DeepTranslator, AWS EC2*

- Developed a Python-based **scraper** with an integrated **translation engine** to aggregate and translate Korean data in real-time
- Automated data collection by deploying to an **AWS EC2** instance via a weekly cron job, ensuring 100% uptime

**AutoWall X** | [[GitHub](#), [Mac App Store](#)] | *Swift, macOS SDK*

- Developed a native macOS menu bar utility using **NSWorkspace** and **LaunchAgent APIs** to automate system wallpaper transitions based on theme changes
- Published the application to the Mac App Store, gaining **30+ initial users** and implementing a "launch-at-login" feature based on user feedback

**CookWithThis** | [[GitHub](#), [Preview](#)] | *React, JavaScript, Groq API, GitHub Actions*

- Engineered an AI-powered recipe generator serving 375+ active users; established a CI/CD pipeline with GitHub Actions

## Engineering Experience

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

Oct 2021 - Jun 2024

- Engineered and scaled an educational platform using custom JavaScript and WordPress, achieving **70,000+ monthly page views**
- Optimized site architecture and SEO to rank **5,300+ keywords** on page one of Google
- Developed lightweight web utilities (Unicode converters, date tools) to increase user retention and site performance

**Web Developer (Founding Member)**, Bridge to Literacy

Aug 2020 - Feb 2025

- Designed and maintained the primary web platform for a global nonprofit, facilitating English literacy for students in **5+ countries**
- Collaborated with a global **team of 18+** to manage technical infrastructure and donor outreach tools

**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

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- **President, SJNY Computer Club:** Secured 50% budget increase and drove 47% growth in member participation. Deployed club website using Next.js 14 to streamline event management for 50+ members
- **Winner, ACM Hackathon:** 1st Place for "Hack n Hoard"; optimized event loops for 60FPS performance (Apr 2025)
- **Data Science Fellow, Code for Nepal:** Specialized in Python-based data analysis and visualization (2023)
- **Certification:** Harvard University's CS50 (Introduction to Computer Science)