

# Jay Kilaparthi

New York, NY | +1 (212) 729-5295 | [jayakeerthk@gmail.com](mailto:jayakeerthk@gmail.com) | [www.linkedin.com/in/jayvk](https://www.linkedin.com/in/jayvk)

## SUMMARY

AI Engineer and M.S. Information Systems graduate with 2+ years of experience building real-world applications powered by large language models. Skilled in designing and developing AI tools across voice, messaging, and workflow automation using platforms like GPT-4, Supabase, and Vercel. Experienced in designing prompts, managing data pipelines, and developing backend systems. Delivered working prototypes used by real users and contributed to both frontend and backend development. Co-inventor on a published patent for AI fault detection in solar energy systems.

## EXPERIENCE

### AI Engineer | Hello Inbox | New York City

May 2025 – Present

- Currently building a voice-first AI assistant that helps users manage their inbox by summarizing, prioritizing, and replying to emails using GPT-4o and Whisper.
- Customized the open-source InboxZero backend to support email parsing, label logic, and real-time message summaries across devices.
- Integrated Twilio to enable hands-free access to Gmail through voice and SMS, designed for users on the go.

### AI Engineer | Keeya | New York City

Jan 2025 – May 2025

- Developed a generative AI voice memory platform using ElevenLabs and GPT-4, enabling users to preserve and replay emotional voice messages with high fidelity.
- Built and integrated backend services using Supabase and serverless functions to support voice upload, playback, and user session management.
- Led fine-tuning experiments and testing cycles to enhance output quality and user satisfaction.

### Technical Teaching Assistant – Python for Data Analytics | Baruch College | New York City

Sep 2024 – May 2025

- Automated assignment grading workflows for 700+ submissions, reducing processing time by 50%.
- Designed and implemented an ETL pipeline to extract student data, analyze Python coding submissions for accuracy, and re-upload to Brightspace, ensuring 95% accuracy and improving grading efficiency.
- Assisted 150+ students in Python programming, focusing on data analysis and visualization.

### Growth & Data Lead | Patchly | New York City

Oct 2024 – Mar 2025

- Built MVP of a student event discovery app using Supabase, React, and serverless logic, supporting 300+ user sign-ups across CUNY campuses.
- Analyzed data from 100+ user surveys and 50+ interviews increasing user engagement by 30%.
- Managed multi-channel marketing campaigns (Instagram, email, on-campus) with A/B testing to optimize user acquisition, achieving a 40% increase in sign-ups.
- Secured \$1,250 in funding by presenting a compelling data-driven pitch at the CUNY New Venture Accelerator, showcasing the platform's potential.

### Fundraising Analytics Manager | Make a Difference | India

June 2022 – Dec 2023

- Led a team of 15 volunteers to implement data-driven fundraising strategies, exceeding goals by 20% and raising \$12,000 to support educational programs for 100+ underprivileged kids in India.
- Developed and maintained Power BI dashboards for real-time tracking of donations and volunteer contributions, identifying key trends to optimize fundraising strategies and improve donor retention by 15%.
- Orchestrated 3 donor events, with targeted emails to cultivate long-term relationships with 200+ donors, increasing recurring donations by 25%.

## EDUCATION

### M.S. Information Systems | Baruch College–Zicklin School of Business | New York City

Jan 2024 – May 2025

- Developed a predictive analytics model using Python to forecast Airbnb prices by analyzing correlations between crime rates, location, and amenities. Implemented Decision Trees and Random Forests to improve price accuracy and generated tourist safety scores for data-driven decision-making.
- Conducted a strategic analysis of Baruch College's transition from Blackboard to Brightspace, evaluating potential challenges and impacts through stakeholder interviews and providing recommendations for seamless transition.

## SKILLS

- **Programming & Data:** Python (Pandas, NumPy), SQL, JavaScript, HTML/CSS, Data Wrangling, API Integration
- **Cloud & Data Engineering:** Supabase, Firebase, AWS (Lambda, S3), Vercel, REST APIs, Git
- **Data Analysis & Visualization:** Power BI, Tableau, Alteryx, Excel, A/B Testing
- **AI & Applied Tools:** Prompt Engineering, LLM Integration, Workflow Automation, GPT API, Whisper, ElevenLabs