Samuel Michnik

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EDUCATION

Hunter College – City University of New York — New York, NY
Bachelor of Arts in Computer Science, Minor in Statistics — *Aug. 2019 – Present*
- Expected Graduation: Dec. 2025

EXPERIENCE

Kodely Leader — Feb. 2024 – Present
Kodely — *New York, NY*
- Instruct a class of 12-15 students in Python programming, covering topics like object-oriented programming, game development, and introductory AI concepts.
- Lead hands-on projects using P5 to teach game development fundamentals, including event-driven programming, collision detection, and game loop design.
- Facilitated engaging lessons that introduced essential AI topics alongside interactive coding exercises; enabled each student to develop at least two functional projects using real-world datasets by semester's end.
- Designed and implemented 15 coding exercises to enhance students' algorithmic thinking, debugging skills, and adherence to clean code principles.

Software Engineering Fellow — Jul. 2024 – Sept. 2024
HeadstarterAI — *New York, NY*
- Orchestrated the end-to-end build of five AI initiatives within a condensed five-week period, producing actionable insights that shaped key organizational decisions and refined resource allocation strategies.
- Facilitated rigorous evaluations of productivity throughout biweekly hackathons, identifying key areas for improvement; delivered actionable insights that reduced response time by an average of 10 minutes per customer inquiry.
- Pioneered an AI Cooking Assistant web application within a 5-week sprint, acquiring 1,100+ users in the first 7 weeks through personalized recipe and shopping list generation.

PROJECTS

MoodBot | *Second Place – AI Agents Hackathon: Building for Social and Marketing Use Cases Python —- Discord.py, DeepSee*
- Developed an AI–driven Discord bot using Python, monitoring user interactions and identifying distress signals across 30+ messages per hour to promote mental wellness.
- Implemented sentiment analysis and toxicity detection pipelines with NLP models, achieving 92% accuracy in real–time moderation and user support.
- Created a mental wellness challenge system, delivering over 5 unique activities, encouraging positive habits and boosting user engagement.
- Optimized bot interactions using Discord.py, handling 100+ daily messages for seamless user communication.
- Deployed the bot for live testing during the hackathon, successfully moderating a 20+ member community server and enhancing user engagement.

ChronoNote Reminder Extraction Service
Python, Django REST Framework, PostgreSQL, OpenAI — Nov. 2024
- Engineered a back–end reminder extraction service using OpenAI's API to scan user notes and detect dates, achieving 95% in event detection for automated reminders.
- Architected a text-processing pipeline with Django REST Framework and OpenAI to extract date events and generate structured reminders in PostgreSQL, processing over 200 text inputs daily and reducing manual scheduling time by 40%.
- Optimized back-end latency, achieving a 30% reduction in response time for date extraction and event creation, with architecture designed for seamless frontend integration and supporting scalable, real-time processing as user traffic grows.

Ingredibud
Next.js, Chakra-UI Groq, Git, GitHub, Vercel — Jul. 2024

- Engineered an AI-powered cooking assistant, generating 50+ personalized recipes and ingredient lists based on user preferences.
- Developed a responsive UI using Next.js, Chakra-UI, and the Groq AI API, ensuring 100% up-time and sub-2 second response times for user queries.
- Leveraged Git and GitHub for version control providing updates every 3 days for 2 weeks.
- Deployed the website on Vercel, ensuring reliable performance and continuous availability with 100% up-time.

TECHNICAL SKILLS

Languages: JavaScript, Python, HTML/CSS
Frameworks: Next.js, Django REST Framework, FastAPI, Chakra-UI, Material-UI, Shadcn-UI, TailwindCSS
Developer Tools: Git, Github, Docker, Firebase, Google Cloud, Supabase
Libraries: React, pandas, NumPy, Django, Streamlit