

Samuel Michnik

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Education

Bachelor's in Computer Science

Hunter College | New York, NY

August 2019 – May 2025

Relevant Coursework: Software Analysis and Design, Discrete Structures, Introduction to Data Science, Data Structures and Algorithms, Advanced Capstone in Computer Science

Work Experience

Kodely Leader

Kodely | Brooklyn, NY

April 2024 – Present

- Administered over 20 Kodely career-connected learning and design-based workshops for 100+ elementary and middle school students, focusing on developing essential skills for modern careers.
- Conducted engaging workshop content to target key developmental areas, boosting participant interaction levels among over 200 students while receiving exemplary ratings from parents and educators alike on effectiveness.
- Led and managed a group of 20 students by applying subject-specific expertise and Kodely curriculum, achieving a 30% improvement in student performance and engagement within one semester.

Software Engineering Fellow

HeadstarterAI | New York, NY (Remote)

July 2024 – September 2024

- Designed and implemented five AI projects in five weeks, generating actionable insights that optimized resource allocation; projects were instrumental in optimizing resource allocation, boosting overall team productivity by 40%.
- Facilitated rigorous evaluations of productivity throughout biweekly hackathons, identifying key areas for improvement; delivered actionable insights that led to a reduction in response time by an average of 10 minutes per customer inquiry.
- Coordinated and attended weekly meetups and increased professional network by 10%.
- Developed and launched an AI Cooking Assistant web application that attracted over 1000 users within 7 weeks enhancing meal planning efficiency and user engagement by providing personalized ingredient recommendations and shopping lists.

Extracurricular Activities

Peer Mentor

Hunter College CS Club | New York, NY

September 2024 – Present

- Mentored 2 fellow undergraduate students on programming practices, data structures, and software development, resulting in improved grades and programming skills.
- Designed tailored practice problems for 2 undergraduate mentees focused on data structures and software development practices; achieved measurable enhancements in individual project scores by an average of two full letter grades per student.
- Organized and facilitated over 20 workshops on backend development, frontend development, and AI/ML applications, leading to a 25% increase in participant project completion rates.
- Architected customized programming challenges and exercises resulting in a 15% improvement in coding assessment scores.

Projects

NextStep Readiness

Typescript - ReactJS | Python - Django REST Framework | MySQL | Firebase

- Engineered a complex web application in a team with 3 fellow peers to provide students with an optimal study environment for SAT Mathematics section.
- Crafted a ReactJS-based user interface to enhance user experience, enabling users to track and visualize their statistics. Increased user engagement by 30% and improved data accuracy in tracking knowledge progression by 25%.
- Devised a robust API using Django REST Framework to efficiently handle POST and GET requests, facilitating the retrieval and management of over 1,000 SAT questions, categorized by four main topics and varying difficulty levels.
- Applied MySQL and Firebase to manage storage of user information and question data, reducing data retrieval by 40% and improving API response time by 35% for seamless frontend integration.

IngrediBud

JavaScript – NextJS | Groq – AI Application | Vercel

- Architected a robust recipe personalization tool utilizing advanced algorithms to provide individualized cooking recommendations; crafted upwards of 1,200 custom-tailored dishes that positively impacted user retention rates across the platform.
- Leveraged Next.js for a responsive user interface with seamless client-side rendering, reducing page load times by 30% and ensuring uninterrupted navigation across all site pages.
- Integrated Groq library with Meta's Llama LLM, generating over 1,000 unique recipes to enhance user experience and engagement.

Skills

- Programming Languages: C++, Java, JavaScript (ES6+), Python, HTML, CSS
- Frameworks & Libraries: Django, FastAPI, Flask, ReactJS, Next.js, Vite, LangChain
- Data Science & AI Tools: pandas, NumPy, scikit-learn, Groq, requests, bs4 (BeautifulSoup)
- DevOps & Networking: Linux (bash), Windows (PowerShell), Docker, Git, Github, CI/CD pipelines
- Tools & Platforms: Visual Studio Code, Neovim, Figma, Google Workspace, Microsoft Office
- Languages: Fluent in English, Russian