

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

Medical Biller

Best Billing Co | Brooklyn, NY

July 2019 – Present

- Managed and processed medical billing and coding for a variety of healthcare services, ensuring accuracy and compliance with industry standards.
- Developed and maintained database to track billing information and patient records, enhancing data organization and accessibility by 30%.
- Utilized technical skills to troubleshoot and resolve software issues within the billing system, reducing downtime by 20%.
- Collaborated with the IT department to implement software updates and improve system functionalities, leading to a 15% increase in efficiency.
- Analyzed billing data to identify trends and discrepancies, providing insights that resulted in a 25% reduction in billing errors.
- Automated routine tasks using scripts and macros, saving an average of 10 hours per week and improving overall productivity.

Kodely Leader

Kodely | Brooklyn, NY

April 2024 – Present

- Leading Kodely's career-connected learning and design-based workshops for elementary and middle school students, focusing on fostering 21st-century skill development
- Conducted tailored after-school workshops in multiple districts, enhancing personal development for over 200 students; achieved a 95% positive feedback rate and improved student engagement by 50%
- 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.

Projects

NextStep Readiness

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

- Created a complex web application in a team with 3 fellow peers to provide students with an optimal study environment for SAT Mathematics section.
- Implemented 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.
- Utilized MySQL and Firebase to manage storage of user information and question data, achieving a 40% reduction in data retrieval time and improving API response time by 35% for seamless frontend integration.

Age Calculator

HTML & CSS | JavaScript

- Developed a simple web application to calculate a person's age down to the day, processing 100% client-side.
- Designed a user-friendly webpage using HTML and CSS, ensuring a 20% improvement in page load speed and a 15% increase in user engagement.
- Implemented JavaScript for client-side calculations, enabling dynamic rendering of information based on user input, reducing server load time by 40% and enhancing real time user interaction by 35%.

Rock Paper Scissors Web Game

JavaScript – ReactJS & Vite | CSS – Styling | Netlify – Hosting

- Built an interactive Rock-Paper-Scissors game using ReactJS with client-side logic ensuring 100% responsiveness
- Implemented game logic and state management, handling over 3,000 game sessions
- Styled UI with CSS, enhancing user engagement by 25%
- Deployed application on Netlify, ensuring 99.9% uptime

Skills

- Programming Languages: C++, Java, Javascript, Python, HTML & CSS
- Technologies and Frameworks: Django, Django REST Framework, pandas, numpy, scikit-learn, requests, bs4, ReactJS, Vite, Git, Github, Google Workspace, Microsoft Office, UNIX, Windows, bash commands
- General: Backend Web Development, Software Development, Database Management, Frontend Development, Object-oriented Programming, Web Scraping
- Spoken Languages: English, Russian