

Payal Moorti

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Education

St. John's University – Queens, NY

Bachelor of Science in Computer Science & Master of Science in Data Science

May 2026

Skills

Languages: Java, Python, SQL, HTML, CSS, JavaScript | **Databases:** MySQL | **Technologies:** Microsoft Office, Excel, PowerPoint

Projects

Urgent Care Clinic Data Management System

- Developed a Java program that integrates file handling functionalities to load and update patient data from a text file, providing a user-friendly menu for navigating and managing the patient list.
- Designed and applied hash tables for fast key-value lookups within the patient data, optimizing for minimal collisions and maximizing retrieval speed.
- Utilized Dijkstra's algorithm to solve shortest path problems within the clinic's network, ensuring optimal routing and resource allocation.

Video Sharing Website

- Created a functional video sharing website demonstrating proficiency in web development principles, including front-end development (HTML, CSS, JavaScript), framework usage (Bootstrap), and API integration.
- Constructed and implemented a profile page using HTML, CSS, and Bootstrap framework, showcasing proficiency in front-end development and web styling principles.
- Utilized DOM manipulation techniques to modify web page content and enhance user interaction in real-time.

Website Data Model Analysis and Database Design

- Analyzed a website's data model and created an ERD to represent its entities, attributes, and relationships.
- Transformed the ERD into a set of normalized database tables, and created SQL queries to interact with the designed tables, simulating real-world database operations for a company.

Amazon Data Analysis

- Conducted an analysis of Amazon orders spanning a decade leveraging Python to extract insightful data and visualized spending habits including tax expenditures through bar graphs using Pandas and Matplotlib.

Experience

Association for Computing Machinery – St. John's University

September 2022 - Present

Student Data - Headstarter Hackathon

- Collaborated with a team of three to develop a Python and Streamlit-powered web application capable of visualizing and analyzing over 800 rows of data from multiple perspectives.
- Incorporated scatter plots, bar graphs, and data filters to enhance user experience and facilitate data-driven decision making.

VividVoice - Headstarter Hackathon

- Developed a full-stack web application in a team of three leveraging open-source large language models like Google Gemma and Assembly AI to generate social media content from audio files, saving hundreds of hours of manual work in creating posts.
- Utilized HTML, CSS, and Python Flask to ensure a seamless user experience.

Certifications

JPMorgan Software Engineering Virtual Experience – Forage

June 2023

- Utilized JPMorgan Chase's Perspective software to create an interactive web application for analyzing and presenting stock price data.
- Developed proficiency in establishing financial data feeds, frontend web development, and data visualization using React and TypeScript.

