SIMROSE KAUR CHAUHAN

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EDUCATION

New York Institute of Technology, New York   Expected Graduation: May 2025
B.S., Computer Science, Concentration in Data Management and Analysis
Relevant Courses: Software Engineering, Database Management, Data Structures, Theory of Computation, Information Retrieval, Data Mining, Big Data Analytics, Programming Language Concepts

SKILLS

Languages: Java, Kotlin, Python, SQL, Ruby
Web Development: HTML, JavaScript, React, Bootstrap, CSS
Databases & Frameworks: Firebase, MySQL, Figma, Git, MongoDB
Software Design & Modeling: Object-Oriented Analysis & Design, Object Modeling, Use Cases, UML, Activity Diagrams
Environment: IntelliJ, Visual Studio Code, GitHub, Trello
Operating Systems: Windows, Linux, MacOS

PROJECTS

Bike Sharing Data Analysis
Python, Pandas, Seaborn, Matplotlib
- Processed and analyzed a real-world bike rental dataset using **Pandas** for data cleaning and manipulation.
- Converted CSV data into ARFF format, enabling compatibility with machine learning tools like **Weka**.
- Implemented data visualizations using **Seaborn & Matplotlib** to explore trends in bike rentals by season, temperature, and time of day.

MyCircle (Social Calender App)
Android, Kotlin, Firebase
- Developed an Android app using **Kotlin and Firebase** for real-time event management, schedule sharing, and group schedule comparison, integrating MaterialCalendarView for seamless calendar functionality.
- Implemented advanced features including privacy controls, GPS location sharing, push notifications via **Firebase Cloud** Messaging, offline support, and auto-sync capabilities.

BeLeaf - Adaptive Learning Platform
React Native, JavaScript, MongoDB, Speech Recognition API
- Architected an educational platform for students with learning disabilities, featuring **MongoDB** architecture for user management, learning materials, and progress tracking.
- Implemented real-time speech recognition for pronunciation assessment, document synchronization between teacher-student applications, and integrated AI assistance for personalized learning paths**.**

Uni-Kit (College Starter Kit)
HTML, CSS, Google API, JavaScript, Bootstrap
- Designed and developed the website using **HTML, CSS, JavaScript** and **Bootstrap**, and integrating **Google API** for enhanced functionality and data retrieval.
- Created algorithms for college matching and career pathway guidance, and implemented personality assessment tools for user interaction.

Java Game Development
Java
- Designed and implemented the GUI using Java Swing for an intuitive user interface.
- Built the back-end systems to handle game mechanics, scoring, and state management and Implemented error checks

EXPERIENCE

STUDENT STAFF | NYIT Ventures   **May 2022 - Sept 2022**
New York Institute of Technology - New York, NY
- Assisted in data management and documentation for workshops and meetings, streamlining administrative processes.
- Collaborated with a 13-member team to enhance participant engagement through automated scheduling tools and digital resource management.
- Proposed and implemented efficiency improvements, including optimizing workflows and leveraging collaboration tools to enhance program effectiveness.