Abhiroop Sikand

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EDUCATION

Bachelor of Engineering, *Specializing in Software Engineering – Big Data*   2022-2026

York University, Toronto   **GPA:** 3.6 (4.3 scale)

- Awarded Entrance Scholarship of **Academic Excellence (95%+)**

PROJECTS

Restaurant Reviewer App:
- **Led a team** to design an **end-to-end applicatio**n using Java to help in food discovery across the YU campus.
- Illustrating proficiency in **GUI design** and **SQL database systems** through the development of an intuitive user interface and a seamlessly integrated database architecture.
- Developed features for user interaction, review management, filters, food logs, and gamification elements.

Chrome Extension – Article Summarizer:
- Designed a Chrome Extension using **JavaScript** and **HTML/CSS**, providing users with a convenient software tool to summarize online articles.
- Utilize **API**'s to quickly extract key information from lengthy articles, enhancing efficiency and comprehension.

Weather App: https://abhiroop-sikand.github.io/Weather-App/
- Designed and built a user-friendly weather **application** using **JavaScript** and **HTML/CSS**, allowing users to access real-time weather information and forecasts for their locations.
- Showcase technical skills and understanding of **web development** by successfully creating and launching a functional application.

Space Invaders:
- Demonstrated strong programming skills and expertise in **software/game development** by successfully building a Space Invaders-style game in **Java** with comprehensive **user interface** features and high-score functionality.

Pokémon Battle Simulator:
- Exhibited strong technical abilities in **Java development** by designing and implementing a feature-rich game with an intuitive user interface and a robust high-score tracking system.

Self-Watering Plant System:
- Developed an **Arduino-based automated system** to measure soil moisture levels and activating a watering mechanism when levels fall below a threshold.

Autonomous-Vehicle:
- Utilized **embedded systems** to develop a **robotic syste**m using Arduino for path following obstacle avoidance.
- Programmed **microcontroller** and integrated **ultrasonic/IR sensors** to optimize the **robot's algorithms**.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C#, HTML/CSS, Matlab, JavaScript, SQL, RISC-V, Verilog

Tools & Frameworks: Git, CMD, Maven, Arduino, Microsoft Suit, Google Workspace, Photoshop, Lightroom

RELEVANT COURSES

Data Structures and Algorithms, Embedded Systems, Database Systems, Software Development, Logic for Comp. Sci.

LEADERSHIP EXPERIENCE

SARIT – Micro mobility by YorkU: Representative   January-March 2024
- Develop a comprehensive understanding of features and research being conducted on the vehicle, to communicate the technical aspects of the SARIT and the significance of the research being conducted.

Lassonde Engineering Society: Academic Committee   June-Present 2023
- Member of the Academic Committee responsible for addressing issues across various faculties while identifying and discussing academic concerns within the university.
- Collaborating with committee members to plan and host diverse initiatives resulting in fostering academic engagement and problem-solving skills.

Portfolio: https://abhiroop-sikand.github.io/Portfolio/