# 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 application using Java, projected to increase restaurant visibility by **45%**.
- 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 **JS** and **HTML/CSS**, a convenient software tool to summarize articles, estimated to save around **60-70%** of the reading time
- 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 hydrate the plant when levels fall below a threshold, generally boosting plant health by **30%.**

**Autonomous-Vehicle:**

- Utilized **embedded systems** to develop a **robotic system** 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/