Abhiroop Sikand

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EDUCATION

Bachelor of Engineering, *Specializing in Software Engineering – Big Data* 2022-2026
York University, Toronto **GPA:** 3.6

- 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
- Integrated API 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 forecasts with **90%** reliability.
- Showcase technical skills and understanding of **web development** by successfully creating and launching a functional application.

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%.**

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.

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/