Abhiroop Sikand

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EDUCATION

Bachelor of Engineering, Specializing in Software Engineering - Big Data

2022-2026

York University, Toronto - Academic Excellence Scholarship (95%+)

• Courses: Data Structures & Algorithms, Advanced Object-Oriented Programming, Database Systems, Software Development, Embedded Systems, Operating Systems, Digital Logic Design, Probability & Statistics

PROJECTS

Restaurant Reviewer App:

- Led a team to design an end-to-end application using Java, projected to increase restaurant visibility by 45%.
- Developed and implemented an optimized database architecture with 38% faster response times
- Created effective user interface illustrating proficiency in GUI design and SQL.
- Built features for user interaction, review management, filters, food logs, and gamification elements.

Chrome Extension – Article Summarizer:

- Designed a software tool using JS and HTML/CSS to summarize articles, reducing reading time by 60-70%
- 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 platform.

Self-Watering Plant System:

• Developed an automated system to measure soil moisture levels and hydrate plants when levels fall below a threshold, generally boosting plant health by **30%**.

Autonomous-Vehicle:

- Created a robotic system featuring path following and obstacle avoidance with 96% accuracy.
- Programmed microcontroller and ultrasonic/IR sensors to optimize the embedded systems algorithms.

Space Invaders:

• Using expertise in **software/game development** to successfully build a Space Invaders-style game in Java with comprehensive user interface features and high-score functionality.

Pokémon Battle Simulator:

• Exhibited OOP skills in Java by designing and implementing a feature-rich animated game with an intuitive user interface and an efficient high-score tracking system.

LEADERSHIP EXPERIENCE

Lassonde Engineering Society: Academic Committee

June 2023 - Present

- 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.

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.

TECHNICAL SKILLS

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

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