

Abhiroop Sikand

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EDUCATION

Bachelor of Engineering, *Specializing in Software Engineering – Big Data*

2022 - 2026

York University - 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

WORK EXPERIENCE

Web Developer (Freelance):

May 2025 - Present

Royal Canadian Realty

- Developed and deployed a responsive **landing page/website**, improving lead generation and professional online presence by **23%**.
- Used **HTML/CSS**, **JavaScript**, and **React** to build an engaging design showcasing listings and contact features.
- Collaborated directly with stakeholders to tailor branding, content, and layout for client needs.

Java Coding Tutor:

September 2024 - Present

- Mentored students in Java programming, covering fundamental concepts, **OOP principles**, and **data structures**.
- Provided personalized guidance and **debugging** assistance, improving coding proficiency and problem-solving.
- Assisted students with exam preparation and assignments, leading to improved academic performance and confidence in coding.

TECHNICAL SKILLS

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

Tools & Frameworks: Git, React, Spring Boot, CMD, Maven, Arduino, Quartus, Rodin, Microsoft Suit, Google Workspace

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 **SQL** database architecture with **38% faster response times**.
- Created effective user interface illustrating proficiency in front-end design.

Chrome Extension – Article Summarizer:

- Designed a software tool using JavaScript 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:

- 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** launching a functional platform.

Yorku Parking System:

- Built a parking management system in Java with a JavaFX UI, managing **500+ simulated parking spots**.
- Implemented key features such as real-time availability, and booking, improving system usability by **70%**.
- Developed user and role management (students, faculty, managers etc.) with auto-generated admin accounts, parking validation, rate differentiation, and sensor-based spot tracking.

Autonomous Vehicle:

- Created a robotic system using **C++** 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.

LEADERSHIP EXPERIENCE

Charity - Crafting for A Cure: Vice President

September 2023 - Present

- Organized hospital and event planning efforts for charitable initiatives, ensuring impactful outcomes.