

SWARAJ SHRESTHA

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Computing Science and Business Administration degree holder with proven ability to troubleshoot and debug code, develop a database, and manage projects, honed while serving as a Database Developer at Canada Border Services Agency. Demonstrated programming skills through hands-on projects, including creating web applications while completing my degree and working as a TA for computer science courses. Continually seeking to improve and streamline processes for efficiency and effectiveness.

TECHNICAL SKILLS

Programming Languages:	JavaScript, HTML, CSS, SQL, Python, Java, and VBA (Working Proficiency) LISP, TypeScript, VB.NET and Kotlin (Limited Working Proficiency)
Frameworks:	React.js, Spring Boot, Tailwind CSS and Bootstrap
OS:	Windows Linux – Ubuntu (Working Proficiency)
Additional tools:	Docker, GitHub, DigitalOcean, Figma, Kubernetes, Jira, Microsoft Office365 Suite, and Google Suite
Cloud platform:	Azure (Fundamentals)

HIGHLIGHTED SKILLS

Problem-solving: Adept at debugging complex systems and optimizing code performance for real-world applications.

Communications: Effectively leverage clear and concise communication skills to foster seamless teamwork, facilitate knowledge sharing, and ensure efficient project coordination that enabling successful collaboration.

Adaptability: A versatile technology enthusiast who rapidly masters new technologies, demonstrated through diverse software exposure and hands-on experience in various programming languages.

Analytical skills: Systematically dissects intricate challenges, optimizes performance, and ensures data integrity through meticulous analysis and testing.

Detail-oriented: Keeps a keen eye for detail as demonstrated as a programmer with excellent numeracy skills and understanding of patterns that support accurate coding and appealing program design.

EXPERIENCE

Canada Border Services Agency (CBSA), Halifax, NS

Database Developer (Co-op + transitioned to termed position post-graduation)

January 2024 – December 2024

- Languages used: VBA and SQL
- Developed robust database that has demonstrated remarkable success in streamlining data input processes, enhancing user interfaces, fortifying data integrity, whilst decreasing the number of separate files required from 14 to 2.
- Created input screens, user manuals, queries, and reports and implementing data visualization tools to facilitate data analysis and reporting.

Saint Mary's University, Halifax, NS

Teacher's Assistant

Advanced Computer Programming and Problem-Solving

January 2024 – April 2024

Introduction to Computers and Programming

September 2023 – December 2023, September 2022 – December 2022

- Evaluated and helped students debug their code in Java, enhancing my expertise in algorithms.
- Checking submissions by 27 students (2024), 36 students (2023), and 56 students (2022) and marking them.
- Refined problem-solving skills while deciphering a student's approach to the problem presented.

CEL – SMUworks Program Administrator (Co-op + continued-on part-time basis)

May 2022 – December 2023

- Organized, examined, and analyzed data for SMUworks to draw conclusions regarding the trends.
- Part of the SMUworks Steering Committee to advocate for the students' side and based on past SMUworks records.
- Oversaw all tasks related to the program ensuring that the 40+ positions we funded each term ran smoothly.
- Conducted comprehensive mid-term assessments of SMUworks grant recipients and student employees funded by these grants, ensuring adherence to grant objectives and performance standards.

Residence Assistant**August 2023 – April 2024, August 2022 – April 2023**

- Improved leadership skills by disseminating information by updating the residents (22-floor members (2022), 35-floor members (2023)) on the most current information regarding the university and the facilities available, organizing floor events to help the residents socialize better, bringing forth a feeling of togetherness among the floor members, and since most students are first years – nurturing growth both academically and mentally by becoming an example.
- Mentoring new student leaders.

PROJECTS

Experiential Learning

CSCI 3428 – Software Engineering

September 2023 – December 2023

- Language used: React.js with Tailwind CSS
- The service-learning component of the course- taught to use schedules, specify software requirements, create detailed software design, have software testing, delivery, and documentation, and develop software utilizing these tools in the AGILE method for the project - St. Margaret's Bay Area Woodland Conservation Site.
- Link: <https://github.com/SwarajStha/conservation-site.git>

CSCI 2356 - Mobile App Development

January 2023 – April 2023

- Language used: HTML, CSS, JavaScript
- The service-learning component of the course- applied knowledge and wrote software and documentation for a Mi'kmaq language game on behalf of the Eskasoni Immersion School, to be added to a suit of 2 other existing games. The student and team had 2 meetings with the clients.
- Project lead for a team of 5, created the web-based application to teach children the basic vocabulary of the Mi'kmaq language.

Personal Projects

Web-hosted Portfolio (continuous development)

- Language used: React.js with Tailwind CSS
- Continuous Integration/Continuous Delivery using DigitalOcean's App platform.
- Showcases my projects and skills in a user-friendly interface. The project demonstrates proficiency in modern web development technologies and the ability to create visually appealing and responsive designs.
- Implemented SEO strategies by leveraging React Helmet, enhancing the website's visibility and search engine ranking.
- Link: <https://github.com/SwarajStha/portfolio-Swaraj.git>

Online class Face-Tracker (completed)

- Language used: Python
- This program tracks the user's face and eyes whilst they are in an online course or during a meeting to produce graphs about what portion of the time were they looking at the screen and how distracted were they.
- Link: <https://github.com/SwarajStha/faceTrack.git>

CourseNotes (in progress)

- Language used: Kotlin
- An Android application that takes pictures and automatically arranges them into folders based on the student's class schedule.

EDUCATION

Bachelor of Computing Science & Business Administration**September 2020 – May 2024**

Saint Mary's University, Halifax NS

Award of Academic Excellence

Co-operative Education Program

- **CGPA** - 4.25 / 4.30 (A+)
- **Academic Achievement Scholarship Award** – 2021 - 2022, 2022 - 2023
- **MT&T Computing Science & Business Administration Scholarship Award** – 2020 - 2021, 2022 – 2023, 2023 - 2024
- **Faculty Union Scholarship for Academic Excellence** – 2022 - 2023
- **Dean's List** – 2020-2021, 2021-2022, 2022-2023