SWARAJ SHRESTHA

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LinkedIn | GitHub | Portfolio

EDUCATION

M.Sc. Management & Digital Technology   **October 2025 – Current**
Technical University of Munich (TUM), Campus Heilbronn, Germany

B.Sc. Computing Science & Business Administration   **September 2020 – May 2024**
Saint Mary's University (SMU), Halifax, NS, Canada
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

TECHNICAL SKILLS

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

EXPERIENCE

Canada Border Services Agency (CBSA), Halifax, NS, Canada

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, Canada

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

Personal Projects

CourseNotes (**in progress** – working prototype ready)
- Language used: Kotlin
- An Android application that takes pictures and automatically arranges them into folders based on the student's class schedule.
- Link: https://swarajshrestha.tech/#projects – CourseNotes

Web-hosted Portfolio (**continuous development** – hosted at Portfolio)
- 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://swarajshrestha.tech/#projects - Online Class Face-Tracker, https://github.com/SwarajStha/faceTrack.git

Course Projects

Successful investing with AI and Large Language Models   **October 2025 - Present**
- Technologies used: Python & Groq API (Qwen3-32B)
- Developed for the Campus Challenge - Successful investing with AI and Large Language Models course, the project investigates whether sentiment extracted from financial headlines has predictive power for stock price movements through rigorous statistical analysis of time-lagged correlations.
- Prompt Engineering to output sentiment score.
- Testing and optimizing quality of output by using test-stats like Sharpe, Z-score, Pearson Correlation, OLS, etc.
- Link: https://swarajshrestha.tech/#projects – Investing with AI (using Qwen3)

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://swarajshrestha.tech/#projects - St. Margaret's Bay Conservation Site, https://github.com/SwarajStha/conservation-site.git