

William Siong Sin

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<https://williamsiong.netlify.app/>

EDUCATION

University of Guelph, ON

September 2020 – April 2025

- Bachelor of Computing, Honours, Software Engineering (Co-op)
- Relevant Courses: Software Design, Data structures, Object Oriented Programming, Machine Learning, Web Design and Development, Discrete Structures in Computing and Calculus
- International Entrance Scholarship

Mahatma Gandhi Institute, Mauritius

January 2012 – December 2019

- GCE Advanced level (A Levels)
- GCE Ordinary level (O Levels)
- Certificate with high distinction at Alliance Française

EXPERIENCE

Nissan Canada Inc.

January 2024 – September 2024

Vehicle Connected Services

- Tested Connected Vehicle Services, including remote vehicle diagnostics, over-the-air (OTA) updates, and telematics.
- Collaborated with cross-functional teams to integrate and enhance infotainment, navigation, and safety features.
- Worked with cloud-based platforms and APIs to ensure seamless communication between vehicle systems and external services.
- Conducted data analysis to monitor vehicle performance and customer usage patterns, using findings to drive improvements in connected services.

Intellijoint Surgical Inc.

May 2023 – September 2023

Test Automation Engineer

- Developed and maintained automated test cases, scripts, and scenarios for functional, regression, and performance testing using CodeceptJS and Playwright.
- Contributed to various phases of the product development lifecycle with a focus on software testing.
- Participated in risk management, bug triage, backlog refinement, and sprint planning to ensure thorough testing of features and defect resolutions.

Sonova Canada Inc.

September 2022 – December 2022

Software QA Analyst

- Executed and maintained detailed manual test scripts for various hearing aid hardware to ensure functionality and reliability.
- Conducted comprehensive manual regression testing to verify system stability and identify potential defects.
- Provided actionable feedback to the development team based on test findings, contributing to continuous product improvement and client satisfaction.

Purolator Inc.

May 2022 – September 2022

QA Developer

- Automated testing processes using Selenium and Python, streamlining operations and improving efficiency across projects.
- Designed and implemented a robust testing pipeline in Microsoft Azure, integrating continuous testing into the CI/CD process to ensure consistent delivery of high-quality software.
- Documented testing procedures and results meticulously to provide transparency and traceability across all testing phases.
- Collaborated with cross-functional teams to identify and resolve issues across various environments, including development, staging, and production, ensuring seamless system functionality.
- Contributed to the enhancement of automation frameworks, enabling scalability and adaptability to evolving project requirements.

United Commercial Services Ltd.

September 2019 – January 2020

Operational Administrator

- Ensured that filing was done in an orderly and timely manner.
- Responsible to enter day-to-day operational data on a tailored accounting program.
- Recorded the financial compensation of employees.
- Efficiently organized the operational data of daily activities of the business.

PROJECTS

TixHub

August 2024

Innovative full-stack developer with hands-on experience in building TixHub, a modern event ticketing platform. Leveraged cutting-edge technologies including React, Next.js, and Tailwind CSS to create a responsive and user-friendly web application. Key contributions include:

- Designed and implemented a dynamic search functionality with multi-filter options (event type, location, date range)
- Developed an auto-scrolling featured events carousel to enhance user engagement
- Integrated the Ticketmaster API to retrieve event information
- Utilized Next.js App Router for efficient server-side rendering and optimized performance
- Implemented responsive design principles ensuring seamless user experience across devices

Portfolio

December 2023

- Developed a responsive, multi-language (English/French) portfolio website using React and Next.js, demonstrating proficiency in modern front-end technologies and localization.
- Implemented engaging animations and transitions using Framer Motion, enhancing user experience and visual appeal across the site.
- Designed and integrated a custom chat interface with social media links, showcasing skills in component development, state management, and user interaction design.
- Utilized Tailwind CSS for styling and Next.js image optimization, ensuring consistent design and optimal performance across various devices and network conditions.
- Incorporated accessibility features and error handling, demonstrating commitment to creating inclusive and reliable web applications.

Alarm App

November 2023

- Developed a native IOS alarm application using Swift and SwiftUI, demonstrating proficiency in modern Apple development frameworks
- Designed a modular and maintainable codebase with clear separation of concerns between view components (AlarmListView, AlarmEditView) and data models
- Implemented MVVM architecture pattern using SwiftUI's declarative syntax and @State property

wrappers for efficient state management

- Built custom date formatting and day selection systems to handle complex temporal data requirements
- Integrated SwiftUI's EditButton functionality for enhanced list management capabilities

SKILLS & CERTIFICATIONS

- Native Bilingual (English & French)
- Strong analytical, problem solving, and critical thinking skills gained from previous experiences
- Outstanding time management, organizational skills and strong attention to details
- Professional experience in Java, JavaScript, C, SQL, Python, CodeceptJS, Selenium, Playwright, Assembly language (68k), HTML, CSS, Microsoft Excel
- Object Oriented Programming
- Well-built sense of leadership and teamwork
- Standard First Aid and CPR-C certified

EXTRACURRICULAR ACTIVITIES

- Organized sensitization campaign to raise awareness about recyclable wastes
- Promoted environmentally friendly practices as part of club initiative in high school
- Member of La 27eme Scout Troop
- Took part in a Science Quest competition at National level