William Siong Sin
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EDUCATION

University of Guelph, ON   **September 2020 – April 2025**
- Bachelor of Computing, Honours, Software Engineering (Co-op) | GPA: 3.7/4.0

Mahatma Gandhi Institute, Mauritius   **January 2012 – December 2019**
- GCE Ordinary level (O Levels) | GCE Advanced level (A 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 diagnostics, over-the-air (OTA) updates, and telematics for over 20+ vehicle models.
- Collaborated with cross-functional teams to enhance infotainment, navigation, and safety features, impacting 200,000+ vehicles.
- Worked with cloud-based platforms and REST APIs to ensure seamless system communication, improving data transfer efficiency by 20%.
- Evaluated data on user behavior within the infotainment system; findings pinpointed three critical causes of navigational errors, enabling focused improvements to enhance driver experience and safety features.

Intellijoint Surgical Inc.   **May 2023 – September 2023**
Test Automation Engineer
- Engineered and maintained over 50 automated test scripts for functional, regression, and performance testing with CodeceptJS and Playwright; enhanced the efficiency of software validation processes by saving an estimated 15 hours per week.
- Participated in risk management, bug triage, backlog refinement, and sprint planning, reducing bug resolution time by 40%.
- Ensured software reliability by contributing to various phases of the SDLC (Software Development Life Cycle), improving test coverage by 35%.

Sonova Canada Inc.   **September 2022 – December 2022**
Software QA Analyst
- Conducted manual testing for 10+ hearing aid hardware models, ensuring functionality and reliability.
- Performed comprehensive regression testing, identifying, and documenting 20 defects, leading to improved product stability.
- Provided actionable feedback to developers, leading to a 20% reduction in post-release issues.

Purolator Inc.   **May 2022 – September 2022**
QA Developer
- Automated testing using Selenium & Python, increasing efficiency in CI/CD pipelines by 50%.
- Streamlined a testing pipeline in Microsoft Azure, integrating continuous testing into the deployment process, reducing deployment errors by 30%.
- Coordinated efforts with diverse stakeholders to identify and resolve 15+ production issues across various environments, including development, staging, and production, ensuring seamless system functionality.

United Commercial Services Ltd.   **September 2019 – January 2020**
Operational Administrator
- Administered 500+ data entries and maintained financial record accuracy with a tailored accounting system.
- Enhanced operational data management, reducing reporting errors by 15%.

PROJECTS

FitBeat   **December 2024**
- Built a mobile fitness app using Flutter, integrating Cupertino and Shadcn UI components for enhanced UX.
- Designed a robust authentication system with Firebase Authentication for seamless user management.
- Created a customizable dashboard to track workout summaries and progress.
- Integrated real-time API requests for accurate exercise data retrieval.

TixHub   **August 2024**
- Designed and built multi-filter search functionality (event type, location, date range).
- Integrated auto-scrolling featured events carousel, enhancing user engagement.
- Integrated Ticketmaster API to retrieve event data dynamically.
- Optimized performance using Next.js App Router and responsive design principles.

Portfolio   **December 2023**
- Created a multi-language (English/French) portfolio using React & Next.js.
- Utilized Framer Motion animations, enhancing user experience.
- Optimized site performance with Next.js image optimization and Tailwind CSS.
- Integrated accessibility features, ensuring an inclusive web experience.

SKILLS & CERTIFICATIONS

- Native Bilingual (English & French).
- Programming Languages: Java, TypeScript, JavaScript, Python, C, SQL, HTML, CSS
- Testing Tools: Selenium, Playwright, CodeceptJS
- Frameworks & Libraries: Flutter, React, Next.js, Tailwind CSS, Framer Motion
- Cloud Platforms: Microsoft Azure, Firebase
- CI/CD Tools: Azure DevOps
- Other Skills: Strong problem-solving, analytical, and decision-making abilities, Object-Oriented Programming, Data Structures, Machine Learning, Web Development, API Integration, Agile Methodologies, Scrum, Risk Management