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

WORK EXPERIENCE

Avidbots Corp.   **July 2025 – December 2025**
Embedded Software QA Engineer
- Tested embedded software for autonomous robots to ensure reliability.
- Ran functional, regression, and performance tests on Linux-based systems.
- Used ROS to configure, monitor, and debug navigation and perception modules.
- Logged and tracked software bugs in Jira.
- Verified hardware–software integration across controllers, sensors, and actuators.

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.
- Worked cross-functionally to enhance infotainment, navigation, and safety features across 200,000+ vehicles.
- Worked with cloud-based platforms and REST APIs to ensure seamless system communication, improving data transfer efficiency by 20%.
- Analyzed user behavior data within the infotainment system to identify root causes of navigational errors, enabling targeted enhancements to improve driver experience and safety.

Intellijoint Surgical   **May 2023 – September 2023**
Test Automation Engineer
- Developed and maintained 50+ automated test scripts with CodeceptJS and Playwright for functional, regression, and performance testing, enhancing validation efficiency and saving 15 hours per week.
- Applied problem-solving skills to support risk management, bug triage, backlog refinement, and sprint planning, resulting in a 40% reduction in bug resolution time.
- Ensured software reliability by contributing to various phases of the SDLC (Software Development Life Cycle), improving test coverage by 35%.

Sonova Canada   **September 2022 – December 2022**
Software QA Analyst
- Conducted manual software testing for 10+ hearing aid hardware models, ensuring functionality and reliability.
- Performed thorough regression testing, identifying and documenting 20 defects, which contributed to enhanced product stability.
- Leveraged strong communication skills to deliver actionable feedback to developers, contributing 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%.
- Collaborated with diverse stakeholders and adapted to shifting environments to resolve 15+ issues across development, staging, and production, ensuring consistent system performance.

United Commercial Services Ltd.   **September 2019 – January 2020**
Operational Administrator
- Administered 500+ data entries and maintained financial record accuracy with a tailored accounting system.
- Utilized critical thinking to optimize operational data management processes, leading to a 15% reduction in reporting errors.

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

- **Languages:** 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, Jira
- **Cloud Platforms:** Microsoft Azure, Firebase
- **CI/CD Tools:** Azure DevOps, JIRA, Confluence
- **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