JOSHUA CRUZ

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Hamilton, ON

TECHNICAL SKILLS
Languages: Python, SQL, Java, C#, JavaScript, HTML, CSS, PHP, Kotlin
Frameworks: Bootstrap, ReactJS, .NET, React Native, Expo, NodeJS, Flask
Technologies: Microsoft Azure, Figma, MySQL, Git, Github, Android Studio, Unity, Katalon, Selenium, Jira, Bitbucket, Stash, WinSCP, Putty, MiB manager, Wireshark, AJAX, Tera Term, DBeaver

PROFESSIONAL EXPERIENCE
Software Engineer Intern - DVG   May 2024 – Present
Evertz Microsystems – R&D   *Burlington, ON*
- Conducted root-cause analysis and debugging of hardware and software integration issues to identify and resolve critical defects on Linux-based systems.
- Collaborated with cross-functional teams, including engineers and product managers, and directly engaged with customers to resolve discrepancies and technical issues, ensuring timely resolution of customer-reported defects.
- Implemented and streamlined automated test scripts using **Python**, increasing test coverage and reducing manual testing time per test cycle.
- Authored and maintained **20+** detailed test procedures, published manuals, and execution reports using **Confluence** and **Jira**, ensuring clear documentation and **100%** adherence to QA standards.

Research Assistant   January 2025 – Present
Mohawk College – TEMI Robot   *Hamilton, ON*
- Enhanced TEMI's conversational capabilities, Mohawk College's robotic assistant, by integrating **Large Language Models (LLMs)** and developing an **Android** application using **Kotlin** and **Java** in **Android Studio**, incorporating the **OpenAI Whisper API** for speech-to-text functionality, resulting in an improvement across all supported languages and an average end-to-end time of under 2 seconds.
- Led **UI/UX** improvements using **Figma**, optimizing button readability, adding animations, and enhancing design for greater usability and accessibility, resulting in an increase in user engagement and a reduction in user errors.
- Contributed to the implementation of **Retrieval-Augmented Generation (RAG)** to enhance context-aware information retrieval from institutional documents, improving information retrieval efficiency.

PROJECTS
Class Compass
classcompass.org
- Contributed to backend development for Class Compass, a start-up company whose platform is connecting parents with verified educators and resources, utilizing **HTML**, **JavaScript**, **Python Flask**, and **MySQL** to implement key features and optimize functionality.
- Developed and integrated database functionality via **MySQL** on **DigitalOcean**, creating endpoints and improving data validation to enhance the platform's overall user experience.

Boba Buddy
- Developed an end-to-end mobile application using **React Native** and **Expo SDK**, delivering a seamless, responsive design optimized for **iOS** and **Android** devices.
- Integrated **Google Maps API** with web mapping and geolocation APIs, enabling users to easily navigate to bubble tea shops in Hamilton, Ontario.
- Boosted user engagement by implementing a search feature allowing filtering by brand, distance, and ratings, resulting in a 30% increase in app usage time.

EDUCATION
Computer Systems Technology - Software Development   September 2022 – Present
Mohawk College   *Hamilton, ON*
- Expected graduation date: December 2025
- Consistent **Dean's Honour List** recipient

Honours Bachelor of Science (Biology)   September 2016 – April 2021
McMaster University   *Hamilton, ON*

CERTIFICATIONS
Microsoft Certified: Azure Fundamentals   May 2024