

Andrew Zaki

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EXPERIENCE

- **Magna** Aurora, ON
Software Developer May 2023 - Present
 - Led the development of **HMI** and **automation** software for a fleet of **5+** robotic systems, reducing system downtime by **~10%** and cutting cycle times by up to **5 seconds** per operation.
 - Developed **C++** and **Python** based software's to interact with **APIs** and robotic systems, optimizing communication protocols and reducing data transfer latency.
 - Oversaw solo and group projects using **Azure**, ensuring **~95%** on-time delivery and successful sprint completion by implementing task tracking and agile best practices.
 - Architected and managed **SQL** databases and implemented algorithms that improved query efficiency by **~12%**, reducing overall processing time for robotic system operations.
- **FCT** Oakville, ON
Software Engineer Intern May 2022 - Dec 2022
 - Leveraged **Microsoft Azure DevOps** to manage cross-functional team projects and track individual tasks, resulting in a **~15%** increase in task completion efficiency.
 - Developed and executed static and dynamic testing systems using **JavaScript**, improving code reliability and reducing bug occurrence rates
 - Developed a **C++** web application for secure data exchange between **TD** and **RBC** servers. Ensured thorough testing and system stability to avoid disruptions, reducing risk of server crashes.
- **Canadian Coptic Center** Mississauga, ON
Data Scientist Sep 2020 - Apr 2022
 - Built and maintained a **MySQL** database for **500+** consumers, improving data organization and retrieval speed, which streamlined reporting and reduced manual data processing
 - Developed and optimized **SQL** queries and scripts to facilitate real-time reporting and automate maintenance processes, reducing data processing time
 - Evaluated database requirements and formulated long-term data strategies, resulting in improved data accuracy and consistency. Presented insights to leadership via **Power BI**, aiding key decisions.

EDUCATION

- **University of Waterloo** Waterloo, ON
Bachelor of Computer Science Sep. 2018 – Aug. 2024
- **Relevant Courses**
 - Data Structures, Algorithms, OOP, User Interfaces, Database Management, Machine Learning

PROJECTS

- **Coptic History Mobile Application** A solo project built using **Swift** and **Xcode** as an attempt to educate on the history of the Coptic Orthodox Christianity Religion
- **Notes Desktop Application** A group project built using **Kotlin**, **Gradle** and **JavaFX**, with an **SQLite** database, to create a note taking application that brought advanced features, while keeping a clean UI

PROGRAMMING SKILLS

- **Languages:** C++, Python, Javascript, Swift, SQL **Technologies:** Django, React, MySQL, Power BI