

Christian Sorto

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Education

Toronto Metropolitan University, Bachelor of Engineering - Computer Engineering Sept 2021 – May 2025

- **Relevant Courses:** Embedded Systems Designs, Computer Networks, Digital Integrated Circuits, Communication Systems, Computer Organization and Architecture, Advanced Algorithms and Data Structures, Digital Systems, Operating Systems

Experience

IT Technical Support, Haft2 inc. – Toronto, ON July 2023 – Aug 2023

- Conducted factory resets on old office computers including iMacs and Macbooks and tested to ensure all computers were operational—updated inventory records with specifications
- Prepared equipment for new users or resale ensuring that all computing devices were restored to provide potential users with an experience resembling the "out-of-the-box" condition
- Performed initial setup of new workstations for the employees in the newly established office

Content Migration, Mastercard – Remote June 2022 – Sept 2022

- Expanding my knowledge of website development, Drupal was used in extracting content such as articles, interviews, photos, and podcasts from the previous Mastercard Foundation website to migrate
- Worked alongside the newly appointed graphic design team, to develop the new website for the Mastercard Foundation

Projects

Heart Condition Detector using a SoC with Hardware Accelerators Python, SystemC, VHDL

- Collaborated on a project to design and implement an ECG signal analysis system using the FPGA-based SoPC platform AMD Xilinx Zynq-7000
- Developed and optimized hardware accelerators to handle computationally intensive tasks in the ECG signal processing algorithm, integrating with ARM-based CPU cores
- Led the hardware-software partitioning and verification of the ECG analysis system using high-level languages, focusing on real-time detection of heart conditions from ECG data sets.

Bookstore Application Java, CSS

- Developed a bookstore application featuring user authentication via username and password, enabling customers to purchase books and process book returns.
- User Interface was created using JavaFX. Junit was used for testing and debugging to ensure edge cases were fulfilled

NOAA Lake Temperature Analysis Program C

- Developed a temperature analysis program using NOAA data for The Great Lakes of Canada by utilizing C programming and concepts such as arrays, pointers, functions, and sorting algorithms.
- Conclusions were drawn by analyzing various factors including average yearly temperatures, temperatures specific to different seasons, and the highest and lowest temperatures.

Technical Skills

Languages: Java, Python, C/C++ , JavaScript, HTML/CSS, SQL, MATLAB, VHDL, Absolute Assembly

Frameworks: Jest, JUnit, WordPress, Drupal, Node.js, Next.js, React

Developer Tools: Git, PyCharm, IntelliJ, Eclipse, Linux, Oracle