

# Christian Sorto

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Personal Website: christiansrto.github.io

## Education

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**Toronto Metropolitan University**, Bachelor of Engineering - Computer Engineering Sept 2021 – Present

- **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, Machine Learning, Cloud Computing, Data Engineering

## Experience

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

- Provided end-user support, including guidance on initial login and software usage for new devices
- Updated and maintained inventory records, documenting specifications and system configurations.
- Performed the initial setup and configuration of new workstations for employees in a newly established office, including hardware installation and software deployment

**Back-end Developer - Content Migration**, Mastercard – Remote June 2022 – Sept 2022

- Utilized Drupal to extract and migrate content, including articles, interviews, photos, and podcasts, from the legacy website to a new platform
- Collaborated with the graphic design team to integrate content seamlessly into the updated website structure, ensuring consistency and functionality
- Gained hands-on experience in content management systems (CMS) and back-end workflows to support large-scale website development and migration

## Projects

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

- Designed and implemented an ECG signal analysis system on the FPGA-based SoPC platform AMD Xilinx Zynq-7000, optimizing hardware accelerators for computationally intensive tasks and integrating them with ARM-based CPU cores for efficient processing
- 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

**Peer-to-Peer Application** *C*

- Developed a P2P application with an index server and peers for efficient content exchange using UDP and TCP network protocols
- Implemented features for content registration, search, download, and dynamic server registration
- Utilized socket programming and the select system call to manage multiple connections efficiently

## Technical Skills

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

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

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