MALCOLM ST. JOHN

COMPUTER ENGINEERING

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EDUCATION

Université de Sherbrooke   Sherbrooke, QC (2017–Present)
  - B. Eng. Computer Engineering

McGill University   Montreal, QC (2015–)
  - B. Sc. Honours Mathematics (30 credits)

Cégep de Sherbrooke   Sherbrooke, QC (2012-2015)
  - College diploma in natural sciences and music
  - National finalist for the Canadian Music Competition in 2013 and 2015
  - Marie-Victorin prize for excellence in mathematics, 2015

EXPERIENCE

Media5 Corporation
Kernel Developer; C   Sherbrooke, QC (Winter 2020)
  - Development of their custom kernel.

CGI Inc.
Full stack developer; Java (Spring), Typescript (Angular), Microsoft SQL Server   Sherbrooke, QC (Summer 2019)
  - Conception and implementation of API endpoints based on client specifications.

Ubisoft Montreal
Tools developer; C++   Montreal, QC (Fall 2018)
  - Generation of 3D navigation data for all the Ubisoft AAA games which use dynamic environments.
  - Designed and implemented a new data management model for storing environment data of game instances in the cloud.

École de musique Pianissimo
Piano and violin professor   Sherbrooke, QC (2014-2018)

PROJECTS

Contributor to the Linux Kernel   Fall 2019-
  - Driver development and code maintenance (C).

Robotics and simulations project   Fall 2019
  - Program a robot to complete a sequence of tasks that were previously analyzed in a simulation (Python).

Biometrics analyser for stationary bike   Winter 2019
  - Helped develop a platform that receives and analyzes biometric data before sending it for display on a user interface (VHDL, Xilinx, C, MIPS architecture, Angular).

Voice controlled Tetris   Winter 2018
  - Implemented the game's logic (C++).

Introductory robotics project   Fall 2017
  - Implementation of our robot's navigation (C, C++).

TECHNOLOGY SUMMARY AND OTHER INFORMATION

Technical Proficiency in :   C, C++, Python, Java, SQL, Git, VHDL, Linux, MIPS assembly, LaTeX
Languages :   English and French
Interests :   Mathematics, Cooking, Card games, Reading