

Jonathan Marcantonio

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EDUCATION

University of Toronto

Sep 2019 – Apr 2023

Honours Bachelor of Science, Computer Science Specialist

Mississauga, ON

- **Relevant Courses:** Software Design (Java), Data Structures and Analysis (Python), Software Tools and Systems Programming (C, Bash), Computer Organization (MIPS Assembly)

EXPERIENCE

Trillium Health Partners

Aug 2020 – Nov 2020

OneTHP Support Staff

Mississauga, ON

- Provided one-on-one guidance to physicians, nurses, and other staff during Trillium Health Partner's implementation of their new Hospital Information System, *EPIC*
- Accelerated patient registration time by **40%** via in-person and remote troubleshooting
- Filed help tickets upon request of health personnel in a remote service role

Game Server Founder/Owner

Nov 2013 – Oct 2017

Cookie Craft Prison

- Generated sales of over **\$30,000**
- Launched (at age 12) a successful game server of over **33,000+** unique players
- Assessed and troubleshot billing issues for over **2900** transactions
- Built a game server on top of the wildly successful game, *Minecraft*

PROJECTS

WikiLink | *MongoDB, Express.js, React.js, Node.js*

[View Project](#)

- Built a full-stack web application in JavaScript that “extends” any link using a random wikipedia article
- Integrated data from Wikipedia's MediaWiki API to load content from a random article
- Utilized a MongoDB database to fetch and redirect “extended” urls to their correct destination

IEEE-754 Converter | *Java, JavaFX*

[View Project](#)

- Created a program to convert between IEEE-754 2008 representation of 32 bit values and decimals
- Incorporated JavaFX to create a reactive GUI interface following MVC design principles
- Leveraged GitHub to effectively work with 2 other teammates

Memories | *Node.js, Discord.js, Heroku*

[View Project](#)

- Developed a Discord Bot to simplify the process of finding messages
- Actively being used in over 60 Discord Servers servicing over 8000 users

XModem Server | *C, Bash, gdb, valgrind*

- Designed a server for the file transfer protocol, XMODEM
- Implemented support for both 128 and 1024 byte data packets
- Integrated various UNIX system calls such as `select()`, `bind()`, `listen()`, and `socket()`

Huffman Coding Compression | *Python*

- Developed an efficient lossless compression/decompression algorithm utilizing Huffman trees

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C, HTML/CSS, Haskell, Racket, MIPS Assembly

Technologies: React.js, Node.js, Express.js, JavaFX

Tools: Git, Linux, Bash, L^AT_EX, Netlify, Heroku, MongoDB

ACHIEVEMENTS

Learning Excellence

University of Toronto

CSC258 - Computer Organization

2021 Winter

Dean's List Scholar

University of Toronto

Cumulative GPA of 3.50 or higher after completion of first year

2019 – 2020

U of T Mississauga Guaranteed Entrance Scholarship

University of Toronto

Merit based scholarship awarded to students with academic excellence

2019