

# Jonathan Marcantonio

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## EDUCATION

### University of Toronto

Mississauga, ON

*Honours Bachelor of Science, Computer Science Specialist*

*2019 – 2023*

- **Relevant Courses:** Software Design (Java), Data Structures and Analysis (Python), Software Tools and Systems Programming (C, Bash), Computer Organization (MIPS Assembly), Calculus of Several Variables, Probability and Statistics I

## EXPERIENCE

### OneTHP Support Staff

August 2020 – Nov 2020

*Trillium Health Partners*

*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*
- Filed help tickets upon request of health personnel in a remote service role
- Increased employee productivity via in-person and remote trouble shooting

### 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
- Built a game server on top of the wildly successful game, *Minecraft*
  - \* Built on the game genre of Prison Servers where players would mine, fight, and explore
- Assessed and troubleshoot billing issues for over **2900** transactions

## PROJECTS

### IEEE-754 Converter | *Java, JavaFX, Git*

- Developed a program to convert between IEEE-754 2008 representation of 32 bit values and decimals
- Incorporated JavaFX to create a reactive GUI interface
- Implemented GitHub to effectively work with 2 other teammates

### City Transit System Simulator | *Java, Git*

- Developed a full scale city transit system simulator with handling of multiple customers, subway and bus routes
- Unified a team of 4 to finish our goals via planning in a product backlog
- Collaborated with teammates via weekly scrum meetings
- Implemented GitHub and Agile sprints to effectively work with 3 other teammates

### Memories | *JavaScript, Node.js, Discord.js, Heroku, Git*

- Developed a Discord Bot to simplify the process of finding memories
- Utilized NodeJS to run the back-end on Heroku via Git integration

### Huffman Coding Compression | *Python*

- Developed an efficient compression/decompression algorithm utilizing Huffman trees

## TECHNICAL SKILLS

**Languages:** Java, Python, C, JavaScript, HTML, CSS, MIPS Assembly

**Technologies:** ReactJS, NodeJS, ExpressJS, JavaFX

**Tools:** Git, Linux, Bash, L<sup>A</sup>T<sub>E</sub>X, 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*