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

One THP 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 50 Discord Servers servicing over 5000 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, LATEX, Netlify, Heroku, MongoDB

Achievements

Learning Excellence

CSC258 - Computer Organization

Dean's List Scholar

Cumulative GPA of 3.50 or higher after completion of first year

U of T Mississauga Guaranteed Entrance Scholarship Merit based scholarship awarded to students with academic excellence University of Toronto

2021 Winter

University of Toronto 2019 - 2020

University of Toronto

2019