

CHARRAN THANGESWARAN

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EDUCATION

Toronto Metropolitan University

Sept. 2021 - Apr. 2025

Bachelor of Engineering in Computer Engineering: Specialization in Software Engineering

TECHNICAL SKILLS

Programming Languages: C, C++, Python, VHDL, Assembly, Java, HTML, CSS, SQL, MATLAB

Software & Tools: Windows, Microsoft Suite, Linux, Unix, Visual Studio Code, Git, GitHub, Arduino, Trello

RELEVANT EXPERIENCE

CombatCraft

Electrical Team Member

Feb. 2024 - Present

- Researching and implementing an ideal **microcontroller** for the battlebot that can be optimized for **C programming** and compatible with **Arduino IDE**

Software Team Member

Feb. 2024 - Present

- Researching and experimenting with **RF, Bluetooth, and Wi-Fi Arduino libraries**

PROJECTS

Goblin Hunt

Feb. 2024 - Present

- Developing a simple text-based RPG game using **C++**
- Implementing **control structures** to manage player interaction and control the flow of the game
- Implementing specific battle **functions** for how much damage each type of goblin deals to the player

Hip-Hop Shop

Jan. 2024 - Feb. 2024

- Developed a functional hip-hop music store application using **Java** and **JavaFX**, while implementing the **Waterfall methodology**
- Applied **object-oriented programming** concepts for album and user information to be stored, reused, and modified

Personal Website

Dec. 2023 - Feb. 2024

- Designed and developed a personal portfolio **web application** using **HTML** and **CSS**
- Collected user feedback and improved website based on suggestions, demonstrating a commitment to user-centered design

Robot Guidance Challenge

Nov. 2023

- Led a team of 3 students to develop a navigation system using for the eebot mobile robot to travel through a maze, achieving 95% completion in under 5 minutes
- Programmed an **HCS12 microcontroller** using **Assembly** to enable eebot movements and sensors
- Demonstrated strong **problem-solving** skills and **attention to detail** in resolving technical issues after trial runs

CERTIFICATIONS

- Electronic Arts Software Engineering Job Simulation:** Forage Nov. 2023
- Tech Stewardship Practice Program:** Tech Stewardship Jan. 2023
- Software Fundamentals Series:** IEEE Computer Society Toronto Metropolitan Chapter Nov. 2021