

# TALHA ATIF

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## EDUCATION

### Software Engineering

McMaster University - 3.9 GPA

Relevant Courses: Data Structures & Algorithms, Object-Oriented Programming, Digital Architecture

Hamilton, ON

Sept. 2023 – Present

## RELEVANT EXPERIENCE

### Full-Stack Developer

McMaster MSA

Sep 2024 – Present

Hamilton, ON

- Optimized website for mobile viewing using media queries, enhancing accessibility for over 1,000 users
- Identified and resolved site defects to enhance functionality and user experience
- Increased site performance and resolved API issues to improve efficiency and reliability

### Software Developer

Stellantis

May 2024 – August 2024

Hamilton, ON

- Worked in the Battery Workforce Challenge to develop and integrate system management software for EV
- Conducted advanced Simulink simulations to optimize real-time control algorithms for battery efficiency
- Created software for testing and validation of battery systems to check reliability and effectiveness

## PROJECTS

### Robot Arm Control | VMware, Quanser, Python

March 2024

- Programmed robotic arm with live simulation software and control systems
- Integrated sensor data and motor control algorithms to automate movement sequences
- Implemented manual control using potentiometers for precise voltage-based adjustments

### Stud.AI | JavaScript, CSS, HTML, React, Tailwind, Node.js

January 2024

- Worked in a team using a GitHub repository to develop an AI-powered studying application
- Utilized React and Tailwind to build responsive front-end UI for improved user interaction
- Deployed MongoDB on Google Cloud Servers for scalable data storage and fast syncing

### Smart Battle Robot | Java

May 2023

- Developed intelligent robot behavior using Java and JFrame for graphical simulations
- Created adaptive algorithms with external data storage to learn and counter opponent strategies
- Designed modular architecture to test robot versions under varied conditions

### Spotify Playlist Generator | Fetch API, Python, Spotify

October 2022

- Won first place at RoboHacks 2 for innovative use of Fetch API and Spotify integration
- Developed Python app using Spotify API to dynamically generate user-tailored playlists
- Implemented simultaneous playlist updates based on user listening patterns

## TECHNICAL SKILLS

**Languages:** Java, Python, C, JavaScript, HTML, CSS, Verilog, OOP

**Frameworks:** React, Node.js, Pygame

**Developer Tools:** Git, Linux, Google Cloud, JetBrains, Eclipse, IntelliJ, Quartus

## OTHER EXPERIENCE

### Technology Sales Specialist

Staples Canada

June 2022 – Present

Oakville, ON

- Provided technical consultations for hardware and software solutions, assisting with device configuration
- Diagnosed and fixed software issues, OS installations, and network connectivity problems for customers
- Achieved a protection plan attachment rate of over 40%