TALHA ATIF

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EDUCATION

Software Engineering   Hamilton, ON
McMaster University - 3.9 GPA   *Sept. 2023 – Present*
Relevant Courses: Data Structures & Algorithms, Object-Oriented Programming, Digital Architecture

EXPERIENCE

Web Developer   Sep 2024 – Present
McMaster MSA   *Hamilton, ON*
- Optimized mobile responsiveness using CSS Flexbox and media queries, enhancing accessibility for 1,000+ users
- Resolved over 10 site defects using TypeScript and React.js to enhance functionality and user experience
- Addressed API issues and optimized backend calls, increasing site speed by 20%

Software Developer   May 2024 – August 2024
Stellantis   *Hamilton, ON*
- Developed and integrated system management software for the McMaster Battery Workforce Challenge, collaborating with both software and hardware teams
- Conducted simulations in MATLAB/Simulink to improve battery control loops and optimize real-time algorithms
- Created software for testing and validation of battery systems to check reliability and effectiveness

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, Bash, HTML, CSS, Verilog, OOP, MATLAB
Frameworks: React, Node.js, Pygame, Tailwind, Typescript, QUARC
Developer Tools: Git, Linux, Google Cloud, JetBrains, Eclipse, IntelliJ, Quartus, Ubuntu, VMware

PROJECTS

Robot Arm Control | *VMware, Quanser, Python*   March 2024
- Led a team of 4 people in developing robotic arm system capable of sorting surgical tools and sterilizing them
- Simulated movement sequences using Quanser, integrating sensor data for a 95% accuracy rate
- Developed custom algorithms for operating arm with automatic and manual control using VMware

Stud.AI | *JavaScript, CSS, HTML, React, Tailwind, Node.js*   January 2024
- Worked in a team using GitHub to develop a Cohere API-powered study helper application
- Utilized React.js and Tailwind to build responsive front-end UI for improved user interaction
- Integrated MongoDB on Google Cloud for scalable data storage, enabling real-time updates

Smart Battle Robot | *Java, JFrame*   May 2023
- Developed intelligent battle robot using JFrame with 80% win rate against opponents
- Created adaptive algorithms to learn and counter 30 possible opponent strategies
- Used modular programming to enable efficient testing and comparison of over 20 different robot versions

Spotify Playlist Generator | *Fetch API, Python, Spotify*   October 2022
- Won first place at RoboHacks 2 Hackathon for innovative use of Velo and Spotify integration
- Developed Python app using Spotify API to dynamically generate user-tailored playlists in under 10 seconds
- Implemented simultaneous playlist updates based on user listening patterns

WORK EXPERIENCE

Technology Sales Specialist   June 2022 – Present
Staples Canada   *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%, ranking first in the store for 3 months