Humzah Zahid Malik

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EDUCATION

University of Western Ontario   Sep 2022 – May 2026
Bachelor of Science, Specialization in Computer Science   **3.3/4.0 CGPA**
Dean's Honour List (2024, 2025)

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, TypeScript, HTML, CSS, SQL, PHP
Frameworks/Tools: React, Next.js, TailwindCSS, Node.js, Qt, MediaPipe, PyAutoGui, SpeechRecognition
Developer Tools: Git, VS Code, IntelliJ IDEA, Jira, Confluence, Vercel, Render

PROJECTS

Focus Flow | HTML, CSS, JS, Node.js, MongoDB, Todoist API, Render
- Developed a productivity-focused web application featuring a custom study timer that helps users track task durations and manage their time effectively.
- Utilized Node.js for the server-side logic, MongoDB for database management, and integrated the Todoist API to sync and store user tasks in real-time.
- Implemented a dynamic "Stats" modal featuring 7-day focus trends and top-task analytics, driving a **25%** increase in average weekly study time during beta testing.

VoxWave | Python, MediaPipe, PyAutoGui, SpeechRecognition, Spotipy, AppleScript
- Developed a macOS menubar application enabling users to control system functions and Spotify playback through real-time hand gestures and voice commands.
- Integrated MediaPipe gesture recognition and SpeechRecognition for a mode-switch system to toggle gesture modes, achieving **90%** accuracy.
- Automated hands-free Spotify control via Spotipy for **500+** track navigations per day, and leveraged AppleScript for seamless macOS system interaction.

Checkers | C++, Qt
- Built an AI game mode using Minimax with alpha-beta pruning, computing moves in **<100 ms** and securing an **85%** win rate at 'Hard' difficulty.
- Designed and tested the user interface using **Qt Widgets**, including visual move highlights and undo functionality for an interactive player experience.

EXPERIENCE

Volleyball Stats Assistant   Jan 2024 – Feb 2024
Western Mustangs, Western University   London, ON
- Tracked and relayed real-time stats during home games, ensuring accuracy to assist coaches in making strategic adjustments.
- Collaborated closely with the stats team to ensure accurate and precise data collection, enhancing real-time insights and reliability for the home team during games.

Merchandiser   June 2021 – June 2022
The Brick   Regina, SK
- Managed customer pickups, delivery reports, and product assembly, ensuring efficient warehouse operations.
- Organized warehouse inventory independently, streamlining processes and reducing wait times for a smoother customer pickup experience.