

EDUCATION

- **University of Western Ontario (UWO), ON** London, ON
Bachelors of Computer Engineering for Ubiquitous in Software Systems; GPA: 3.7 Sept. 2019 – May. 2024

EXPERIENCE

- **Empowered Futures** Calgary, AB
Software Developer Intern Sept. 2022 – Present
 - **Roles:** Worked on the **Agile/Scrum team** to distribute new and improved features for **Sass** application that meets the performance for the business
 - **Design Frameworks:** Utilized **MongoDB** concepts such as **locking, transactions, indexing** and **schema design** for multiple databases having shared collections based on specific environments
 - **Tech Stack:** Creation, configuration and monitoring of specific **shards** which analyzed shared data paths correlating with MongoDB scripts with use case of **export, dump** and **restore**.
- **Zurich Insurance** Toronto, ON
Software Engineer Intern May. 2022 – Aug 2022
 - **Roles:** Worked as a **Testing Automation Architect** in an **Agile** environment supplying efficient, reliable, and accurate samples
 - **Design Frameworks:** Used **java** to parse through document object and present to user on front end using **CSS**
 - **Tech Stack:** Queried data for the objective of receiving user information upon **API getRequest**, listing all group data with **Springboot**, and on boarding new users within the platform
- **Mathematics/Computer Science Tutor** Brampton, ON
Wisdom Tutoring Oct. 2019 – May 2022
 - **Languages:** Worked on various projects with young individuals to build strong constructs in various computer languages such as **Java** and **Python**
 - **Design Frameworks:** Utilized various professional software and programs, Such as **Autodesk** and taught basic fundamentals of **AutoCAD** allowing my students to improve their skills in drafting software
 - **Tech Stack:** Teaching computer technology course which includes **object-oriented-programming** using **Java, scripting** with the use of **HTML, JavaScript** and **CSS**, management of computers and information technology

PROJECTS

- **SmartMirror**
github.com/humzahash01 May 2022. – Aug 2022
 - Assembled a two way mirror to display specific features using a 4k monitor on the back of the glass controlled by a **Raspberry Pi 3**
 - Displayed a thorough understanding of implementing public API's, include Googles **Gmail API, spotify API** and **Weather API**, for users to view the information displayed on these features
 - Built an intuitive case to house the parts using **Ender Pro 5** and **CNC** to cut certain part to its desired length
- **Audio Gesture Control**
github.com/humzahash01 Jan 2022. – May 2022
 - Utilized **NumPy library** for creating support in large multi-dimensional matrices with sizeable collections of mathematical functions to operate these matrices
 - Employed **Mediapipe** to create some solutions to facial and joint recognition, the **hands feature** uses machine learning to conclude 21 key 3D hand frames in one screen
 - Implemented a **camera** which detects the hand and certain spacial points in order to create connection between the finger tip and thumb tip producing proportion to the systems volume control

SKILLS

- **Languages:** C/C++, C, Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, VHDL, VLSI, Verilog
- **Frameworks/Libraries:** Auto desk, React, .NET, NodeJS, Express.js, Angular, KendoUI, OpenCV, TensorFlow, Keras, PyTorch, Jira, Springboot, H2, Maven
- **Tools/Technologies:** Inventor, MongoDB, SQL Server, AWS, Azure DevOps, Firebase, Heroku, Windows/macOS CL, Git, Postman, Swagger.ui,
- **Electromechanical:** Solid Works, EAGLE Software, CNC, Milling, Soldering, PCB Design, Micro Cap
- **Character:** Clear communication skills across all platforms of the organization, Willingness to listen and challenge the status QUO to promote change