

# MUHAMMAD HAIDER SAEED

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Status: Work Visa (Expires: 29 July 2026)

Website: <https://msa280.github.io>

Projects: <https://github.com/msa280>.

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## CAREER OBJECTIVE

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As an enthusiastic candidate seeking graduate positions in web development, I possess a strong passion for programming and a genuine eagerness to apply my skills in practical scenario. This fosters a continuous learning mindset. Being an international graduate, I thrive in diverse work environments that encourage mutual understanding among colleagues. My commitment to diligence drives me to actively seek skill refinement through training and prioritizing teamwork to ensure accurate completion of tasks.

With excellent interpersonal skills, I actively engage with coworkers and appreciate diverse viewpoints. My goal is to become a proficient full-stack developer and eventually use my experiences in programming to make creative and meaningful contributions in the ever-evolving world of technology.

## SKILLS & PROJECTS

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### HTML | CSS | JavaScript | SQL | PHP

#### Portfolio Website (Web Development)

Jul 2023

- Created a fully responsive portfolio website, showcasing my interest in UI/UX and an eye for design.
- Consists of frontend development which deals with the user interface and capturing the user's contact information while the backend sends data for processing and storing it in Google Sheets.

#### Student Timetable Portal Website (Web Development)

May 2021

- Completed a collaborative group project focused on designing and testing a fully functional student portal system.
- Proficiently queried, populated, updated, and managed databases in MySQL, ensuring seamless data operations. Designed conceptual, logical, and physical database schemas to optimize data organization.
- Demonstrated a good understanding of relational database management systems and their integral role in software applications. Also used GitHub as a version control for collaboration and code management.

### Python

#### FinTrack – ANZ Bank Statements Analysis Tool (Software Dev | Data Analytics)

Aug 2023

- Crafted a user-friendly tool that facilitates the effortless drag-and-drop import of bank statements. Leveraged the power of Pandas and SQL to empower users with advanced data querying, while Matplotlib transforms data into meaningful visuals. This user-centric approach yielded an impressive 80% enhancement in financial planning efficiency, offering streamlined analysis and empowering better financial management.

#### Beer Recommender (Data Analytics | Cloud Computing)

Jun 2023

- Developed an intelligent beer recommender system using Apache Spark, providing personalized beer recommendations to users. Performed extensive research on prominent algorithms to optimize the system's recommendation accuracy and performance. This was followed by execution of SQL queries to ensure precise outcomes and enhance the reliability of the recommendation engine. I also leveraged Google's cloud computing to assess the software's effectiveness and speed thus enabling scalability and direct processing of extensive datasets.

### **RIPv2 Protocol (Network Protocols)**

Jun 2022

- Created a network based on the RIPv2 protocol and conducted testing of static routing functionality. Developed a comprehensive configuration file and facilitated efficient exchange of routing packets by computing routes based on periodic updates. Also implemented split horizon with poisoned reverse to effectively prevent routing failures and loops thus ensuring optimal network performance and stability. Program executes in Linux using bash.

### **Language Compiler (Compiler Design)**

May 2022

- Designed a language compiler from scratch for a small programming language, encompassing a scanner, parser, and code generator. Tested the compiler by crafting custom programs to ensure error-free functionality.

### **Socket Programming (Computer Networks)**

Aug 2021

- Implemented a socket program that facilitates bidirectional communication between a client and a server, enabling the exchange of data packets. The program utilizes Python's socket library to establish connections, transmit data, and receive responses seamlessly.

## **Java | C | C++**

### **Optical Illusion Art Gallery (Computer Graphics) –**

May 2023

- Developed optical illusions and 3D objects along with realistic physics animations in OpenGL using C++ and Microsoft Visual Studio, showcasing proficiency in graphical programming and development tools.

### **Ray-Traced Scene (Computer Graphics)**

April 2023

- Created a complex graphical scene by implementing 3D object modelling and incorporating ray tracing concepts. This required an in-depth knowledge of mathematical equations for modelling and a keen understanding of lighting physics to achieve realistic visual effects.

### **Monster Fighter Game (SWE)**

May 2022

- Demonstrated leadership by spearheading a software engineering project, coding, testing, and thoroughly documenting a monster fighting game using Java.
- Added extra functionalities such as game sounds, navigation bar and real time data monitoring.

### **Memory Game (Embedded Systems)**

Sept 2021

- Led a project focused on programming and testing a memory game on an AVR microcontroller - ATmega32 microchip in C. The game requires users to memorize LED patterns before they turn off. Gained valuable experience in embedded system programming.
- Proficiently designed structured C programs and adeptly applied Boolean algebra principles for efficient problem-solving.

## **EDUCATION**

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### **The University of Canterbury | Bachelor of Science (Computer Science)**

Feb 2020 – Jul 2023

- Final Year GPA – 6.0
- Activities: Acted as Class Rep for three different course subjects.
- Engaged actively in COMPSOC (Computer Science Society), participated in various events, and gained networking opportunities to enhance knowledge and build valuable connections within the field.

### **Lahore Grammar School | GCE O & A Levels**

Jan 2017 – Dec 2020

- Class Representative: Represented the class and facilitated communication.
- Inter-school Competition: Won multiple events, including a science competition.
- Sports Enthusiast: Actively participated in basketball, football, cricket, and swimming.
- Community Involvement: Hosted a JTEC event for disabled community members.

**SAT Score – 1300 (Math – 710/800, English – 590/800) O-Level English Language Grade – A**

**Languages: English (First Language), Urdu, Hindi, Punjabi**

## ACADEMIC AWARDS

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### Merit for O-Levels & Scholarship for A-Levels

Aug 2018

Lahore Grammar School

- Awarded 75% total fee scholarship for my A-levels program.
- Received a certificate of merit for 7 A's.

## WORK EXPERIENCE

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### Phone Operator | Delivery Driver | Cook

Part-Time

Dominos Halswell | Christchurch, New Zealand

Worked as a delivery driver delivering food to customers.

- Improved ability to articulate ideas clearly and assist customers in making informed decisions.
- Provided exceptional service which lead to customer satisfaction and in turn increased brand loyalty.
- Managing delivery schedules and phone calls requires effective time management, enabling me to efficiently prioritize tasks and meet deadlines.

### Retail | Stock Clerk

Part-Time

Pak N Save Hornby | Christchurch, New Zealand

Successfully managed inventory, organized products, and restocked shelves during shifts.

- Gained expertise in delivering excellent customer service and maintaining exemplary workplace etiquette.
- Strengthened interpersonal skills through communication with co-workers.
- Recognized the significance of time management as well as patience and empathy when interacting with others.

### Traffic Management

Part-Time

TMM | Christchurch, New Zealand

Worked as a flag person to manage the flow of traffic.

- Demonstrated positive, attentive, and respectful attitude while interacting with drivers on the road and managing traffic flow.
- Cultivated effective communication and collaboration skills while working with the management team.

## VOLUNTARY EXPERIENCE

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### Hackathon

May 2022

ANZAC

Participated in a Python Programming competition.

- Worked collaboratively with my partner to solve various programming questions within specified time constraints.

### Mentoring

Sep 2020 – Jan 2021

UCIC | Christchurch, New Zealand

Voluntarily taught peers Python programming language.

- Gained a deeper understanding of common challenges faced by students during their initial learning phase.
- Developed effective mentoring skills and provided an accessible guideline for students to grasp programming concepts more easily.
- Assisted students in achieving their desired grades, fostering strong relationships within the peer community.

## REFERENCES

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### (Available on Request)

Hashir Sarwar – Accountant at BDO Christchurch.

Ricky – Manager at Dominos Haswell.

Avi – Manager at TMM (Traffic Management Matters).