

# MUHAMMAD HELMI BIN ROZAIN

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🎓 BSc in Intellectual Information Engineering    🏛️ University of Toyama

**3rd-year BSc student in Intellectual Information Engineering** with a strong passion for **Machine Learning (ML)** and **Artificial Intelligence (AI)**. Have some experience in building software such as **point of sale systems** and **website** such as **portfolio websites**. Also in creating **simple games** using **Unity** and **C#**. Enthusiastic about **robotics**, **microcontrollers** and **IOT**, leading to participation in **university robotics project**. Expert in **Python**, my primary programming language. Committed to **learn new technology** and **innovation**, with multiple projects showcased on my **GitHub**.

## 🔧 Competences & Languages

<b>Operating Systems</b>	🐧 Linux, 🖥️ Windows
<b>Programming</b>	Python, C, C#, Flutter, C++, Java, Web development, Game development, Embedded Systems
<b>🗣️ Languages</b>	<b>Malay – (Native Speaker)</b> in reading, writing, listening, and speaking; <b>English – (Advance - TOEIC score 910)</b> in reading, writing, listening, and speaking; <b>Japanese – (upper-intermediate - JLPT N2)</b> in reading, writing, listening, and speaking;

## 🎓 Education

2019	FULLY RESIDENTIAL SCHOOLS, <b>SM SAINS KUALA TERENGGANU, MALAYSIA</b>
2018	SPM 9A
2022	Special Preparatory Program to Enter Japanese Universities, <b>University of Malaya</b>
2020	
present	BSc in Intellectual Information Engineering, <b>University of Toyama</b>
2022	3rd Year. Expected Graduation: 3/2026

## 📍 Volunteering & Job Experiences

<b>Rozeriya Enterprise (Part-Time Cashier) [2020]</b>	Worked as a cashier after high school to support myself financially. Efficiently organized store inventory, provided exceptional customer service, and handled cash transactions accurately. Demonstrated strong attention to detail and teamwork, contributing to a smooth and effective store operation while enhancing the overall customer experience.
<b>Japan Post (Part-Time Employee) [Dec 2022 &amp; Dec 2023]</b>	Worked during the peak end-of-year period, efficiently organizing and sorting large volumes of letters. Operated sorting machinery to ensure accurate and timely distribution to assigned locations. Additionally, gained valuable experience in communicating effectively with Japanese colleagues in the Japanese language.
<b>Tulip and Paddy Planting (Volunteer) [Oct 2022 &amp; Oct 2023]</b>	Participated in community gardening initiatives as a volunteer, focusing on planting tulip seeds and paddy crops. Worked collaboratively with a team to organize planting schedules and manage tasks, showcasing strong teamwork and organizational skills. This experience also provided an opportunity to improve Japanese language communication skills by interacting with local volunteers and community members.

## ⚙️ Computer & Programming Skills

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- › **Python:** Began self-learning Python in 2018 while in high school, gaining proficiency in **algorithms**, **syntax**, and various libraries. Experienced in web development using **Flask**, **data analysis** with **Pandas** and **NumPy**, machine learning with **scikit-learn** and **TensorFlow**, and computer vision with **OpenCV**. Skilled in **scripting** and **automation** for task efficiency, and proficient in **web scraping** for collecting and analyzing information from various online sources. Contributed to the development of a point of sale system using Tkinter for the **user interface** and **Google Firebase** for database management, and participated in several **web development projects** utilizing **Flask**.
- › **Javascript:** Learned JavaScript while building **web applications** using Flask. Gained experience in enhancing front-end interactivity, integrating JavaScript with Flask templates to create **dynamic and responsive user interfaces**, and connecting to **APIs** for data exchange. Utilized JSON format for **data handling** and **communication** between front-end and back-end components.
- › **C:** Began learning C upon entering Toyama University, where it was a fundamental programming language in the curriculum. Applied C programming extensively in **robotics** projects, focusing on coding **microcontrollers** such as Arduino and STM32. Gained experience in **low-level programming**, **real-time system design**, and **hardware interfacing**. Developed skills in debugging, optimizing code for **embedded systems**, and implementing control algorithms for robotic applications.
- › **C#, Java, Dart/Flutter:** Learned through side projects and university course work, leading to the development of **mobile apps and games**. Applied C# in **game development** with Unity, utilized Java for building **mobile applications**, and used Dart/Flutter to create **cross-platform apps**.
- › **Microsoft Office:** Proficient in Microsoft Excel and Word. Experienced with Excel tools, formulas, and functions for **data analysis** and reporting. Familiar with VBA and Macros for **automating tasks** and improving efficiency. Utilized these skills to streamline processes and manage large datasets effectively.

## 🔗 Personal Projects

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- › **Python-POS-System: (Python, SQLite3)** Point-of-sale (POS) system using Python with Tkinter for the graphical user interface and SQLite for database management. Designed to streamline sales transactions, manage inventory, and generate reports.
- › **BMX055-stm32: (C, STM32)** collecting raw data from the BMX055 Inertial Measurement Unit (IMU) using STM32 microcontroller. Implemented data acquisition and conversion processes to transform raw IMU data into readable and usable information.
- › **parcel-pinnacle: (C#, Unity)** 2D platformer game called Parcel Pinnacle for Ludum Dare 53, where players control a postman navigating a cartoon-like environment, overcoming obstacles and jumping between platforms to deliver a package. Designed game mechanics and level progression to create a challenging yet engaging experience.
- › **parcel-pinnacle: (C#, Unity)** Tkinter-based application designed for Japanese learners to efficiently memorize and recall kanji characters. The app features an interactive and user-friendly interface, making it a practical tool for daily kanji practice.



Digital Portfolio



GitHub



LinkedIn