AZRUL HAKIMI BIN AZMI

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Mechanical Engineering student passionate about programming, specializing in web development and front-end technologies. Strong in HTML, CSS, JavaScript, and C/C++. Applied coding skills as a Software Trainee at Knex Inc and through coursework and personal projects, consistently enhancing user experience. I will be available to commence work on October 2nd, 2023.

EDUCATION

Sep 2019 — July 2023 — **Bachelor of Mechanical Engineering, Universiti Malaya** — Kuala Lumpur
CGPA: 3.71/4.00 MUET: Band 4 Dean's List: Semester 2, 3, 4 and 8
Relevant Coursework: Numerical Methods in Engineering, C and C++ Programming, and Engineering Mathematics.

Sept 2018 — Jun 2019 — **Foundation, Universiti Teknologi Mara (UiTM)** — Dengkil
Foundation: 4.00/4.00

WORK EXPERIENCE

May 2022 — Apr 2023 (12 months) — **Software Trainee, Knex Inc** — Kuala Lumpur
- Monitored Company's IoT devices remotely across 6 regions in Brazil.
- Executed 10+ small code modifications, including tasks such as optimizing storage management, updating file paths, and conducting error persistence checks, in response to instructions from senior team members.
- Conducted initial debugging of 5+ software issues such as connectivity problems and error handling, ultimately enhancing functionality and user experience.

Jul 2022 – Sep 2022 (3 months) — **Industrial Trainee, MEGATARA SDN. BHD.** — Kuala Lumpur
- Supported installation, testing, and commissioning for the products installed at 2 major sites, ensuring seamless functionality and efficiency.
- Performed frequent troubleshooting FCU problems to ensure seamless functionality and optimize system performance, reducing downtime by 25%.

Aug 2018 – Nov 2018 (1 month) — **Science and English Tutor, SMK Abdul Jalil** — Hulu Langat
- Planned and delivered 10+ engaging lessons ahead to strengthen weak topics and build skills on stronger ones while utilizing creative teaching methods to enhance class enjoyment and participation.

LEADERSHIP EXPERIENCES

Jul 2021 - Jul 2022 — **Head of Marketing Department for EDMAT43**
- Successfully managed the team to secure 3 valuable sponsorships (BookDoc, MonstaAsia, and Printcious) through efforts in seeking in-kind and monetary support, contributing significantly to the success of the event.

October 2020 — **Facilitator for University of Malaya Week of Welcome 2020/2021**
- Facilitated orientation activities for over 1200 new students, encompassing both physical and online events.
- Designed captivating digital artworks for orientation week's activities and oversaw publicity, resulting in a 10% increase in overall attendance and active participation.

RELEVANT PROJECTS

Oct 2022 – July 2023 — **Final Year Project: Machine learning for classification of museum ceramic artifacts.**
- Developed and implemented an ensemble machine learning method to classify ceramics artifacts using FTIR data, achieving an impressive 85% accuracy rate.
- Successfully trained the model with a limited dataset of only 68 instances.

Oct 2021 – Feb 2022 — **Internal Stress Calculation of Arch Bridge Under Load with C++**
- Performed comprehensive calculations using C++ programming to accurately analyse the structural properties of Three-Hinged Arch bridges, leading to a precise determination of critical parameters with an average accuracy of 98%.
- Identified and rectified calculation errors caused by rounding, resulting in a 98% error-free analysis and improved reliability of the results.

Jan 2019 – July 2019 — **Arduino-based RFID Card Access for Automatic Doors**
- Designed, coded, and implemented an Arduino-based RFID Card Access system for automatic doors while achieving a rapid response time of less than 0.5 seconds for RFID card authentication.
- Displayed real-time user status (registered or unregistered) with 100% accuracy on the user interface.
- Demonstrated exceptional reliability with over 1,000 successful access instances recorded during testing and deployment.

SKILLS

HTML/CSS	Experienced	**JavaScript**	Average	**Java/C#**	Beginner
C/C++	Experienced	**Python**	Average	**MySQL**	Beginner

LANGUAGES

Malay	Native speaker	**English**	Highly proficient	**Mandarin & Japanese**	Conversational