

Omar Medhat

Malaysia | [LinkedIn](#) | +60 14-234 5515 | omarmedhat2004@gmail.com | [Portfolio](#)

EDUCATION

Multimedia University

Foundation in Information Technology

- Member of RoboClub and International Student Society

Monash University Malaysia

Bachelor of Computer Science

- Member of RoboClub, Head of Electrical Systems in Shell Eco-Marathon (Hyperion)
- Currently looking for Internship Placement

Malaysia

April 2021 - Sep 2022

Malaysia

Feb 2023 - Current

WORK EXPERIENCE

Shell Eco-Marathon (SEM) 2025

Head of Electrical Safety | Monash Hyperion Racing Team

- Led the design and implementation of the vehicle's electrical safety system, ensuring compliance with Shell Eco-marathon standards, Passing Technical Inspection, and Getting a 10 Valid Runs on a single charge.
- Mentored and led a team of five junior members, In Designing & Building Electrical Safety System, Using 3D Printing, Laser Cutting, and PCB Design fostering skill development while maintaining project quality.
- Completed a rapid steering wheel redesign within two days to address space constraints, Used CAD design, 3D Printing, Laser Cutting and Carbon Fiber Composites Techniques to Build.

Malaysia | Qatar

Jan 2024 - Feb 2025

Manarat Academy

Lead Web Developer

- Orchestrated the publishing of the entire website within 1 weeks of receiving the spec sheet, And Oversaw Maintenance and updates for a period of 6 months
- Lead team members in following teamwork principles and distributing the workload.
- Proposed and executed solutions that boosted traffic by 30% and call rate by 18%.

Malaysia

Nov 2023 - May 2025

MMU & ZTE

Head Web Developer

- Proposed and executed solutions with team members to increase the responsiveness of the user Website and improve the Accessibility, Resulting in a 32% increase in Applicants.
- Led Team members in developing and deploying the website to production and Maintaining it for a period of 7 months until Competition Results and Prizes were Finalized.
- Kept in direct contact with the clients and had a demo ready within 72 hours of receiving the requirements list And used SOLID principles to maintain best standards.

Malaysia

April 2022 - Nov 2022

BIM Ventures (Venture Studio)

Full-Stack Web Developer

- Collaborated in developing over 6+ websites for multiple clients in less than 2 months adhering to UI/UX standards and best practice and reducing delivery timeframe by 40%
- Utilized technologies like React.js, Next.js, Nuxt.js, Vue.js, TailwindCSS, and Laravel while adhering to best practices using Waterfall Methodology

Saudi Arabia | Remote

Jan 2021 - May 2021

TRYKE

Web Developer & Manufacturing Consultant

- Proposed and executed solutions with team members following Agile principles (Scrum) to increase the responsiveness of the user application and operations dashboard in the most cost and time-efficient ways, leading to a 15% increase in efficiency and a 20% increase in ease of use while utilizing technologies like React.js, Node.js, Firebase & SQL.
- Analyzed and collaborated with team members to design new layouts that improved the UI and UX of the user app and dashboards, thus decreasing customer support tickets by 25%.
- Developed 3D-printed parts for some vehicles while ensuring maximum cost and time efficiency for production.
- Facilitated the Reduction of the firebase cost by 60% by shifting redundant data to the Oracle database and adjusting the platform accordingly.

Malaysia

Aug 2021 - Dec 2021

Sipchem Tech Club*Assistant Instructor***Saudi Arabia***June 2018 - Aug 2018*

- Coached students aged 10-15 on industry-specific skills ranging from 3D printing & CAD design to artificial intelligence during a two-month program involving over 100 students.
- Gathered resources and final project ideas for my students while mentoring students to execute them ranging from AI/ML to embedded systems and home automation while using C++, Python, and Javascript.
- Oversaw students, ensuring that all safety procedures were adhered to while operating laser cutters and/or 3D printers with 0 accidents.

Bright Up*Coding & STEM Instructor***Saudi Arabia***Jan 2018 - July 2019*

- Succeeded in teaching kids aged 8-14 how to operate a 3D printer and laser cutter with all the required safety procedures and theoretical topics.
- Partnered with other volunteers and instructors to create an engaging curriculum to teach the students CAD design and various other skills in less than 1 month.
- Mentored over 30 students in a time span of 3 months during a summer club and almost double that during the rest of my working period.

SKILLS & INTERESTS

Skills: CAD design, 3D printing & laser cutting, UI/UX design, Photo/Videography, Video Editing, Python, Firebase, Vue.js, React.js, Nuxt.js, Express.js, TailwindCSS, Javascript, SQL, SQLite, IoT, Embedded Systems, Circuitpython **English & Arabic**

Interests: Robotics, 3D printing, photography, videography, cycling, hiking, swimming, Kyokushin karate.

References

- Fawzi Mudawwar [BIM]: fawzi@bimsaudi.com
- Mohanad Koko [BrightUp & Sipchem]: mohanadkoko92@gmail.com
- Timothy Wong [TRYKE]: +60 11-1611 8467, tim.wong1355@gmail.com
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