



MUHAMAD BADRUL AMIN BIN MOHD TARMIZI

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OBJECTIVE

Dedicated and self-motivated programmer with a strong background in computer science study. Show casting my curriculum vitae upon my technical expertise, problem-solving skills, and a passion for developing robust solution.

EDUCATION

Bachelor of Computer Science (Hons), Universiti Sains Islam Malaysia 2019 – 2023
CGPA: 3.94

Tamhidi of Science and Technology, Universiti Sains Islam Malaysia 2018 – 2019
CGPA: 3.34

Sek Men Agama Majlis Agama Islam Wilayah Persekutuan (SMA MAIWP) 2013 - 2017
SPM 2017

WORKING EXPERIENCES

Software Engineer | September 2023 – Current | NetbyteSEC Sdn Bhd

Experienced in software development project in all aspect of software development life cycle, with proficiency in various programming languages, platforms, and software development tools. Working on web application development using Spring boot framework and Angular.

Internship Programme | March 2023 – July 2023 | NetbyteSEC Sdn Bhd

Learn a lot of knowledge related to cyber security including web penetration testing, mobile penetration testing, Wi-Fi penetration testing, computer forensic, reverse engineering and malware both from offensive security team and detection team. In development, I learn Laravel framework, Vue and also Angular. Knowledge in cyber security help me to create a secure coding. Involve in creating CTF questions and setting up the platform. Involve in honeypot project. Involve in software development team in CRS project.



Deep Learning Analysis of Mandibular Third Molar and Inferior Alveolar Nerve in Dental Panoramic Tomography | USIM | 2023

Continuation from previous project to improve model accuracy and efficiency.

Grant code: PPPI/USIM/FPG/USIM/16224

Analysing the Relationship Between Mandibular Third Molar and Inferior Alveolar Nerve in Dental Panoramic Tomography by Using Deep Learning | USIM | 2023

Develop a deep learning model using ResNet to detect contact or non-contact of mandibular third molar and inferior alveolar nerve. Dataset for this project is strictly confidential as it a medical data. The data collection was made by a team member from faculty of dentistry.

Grant code: PPPI/BM-DB/FPG/USIM/10823

Survivors Identification and Localization for SAR Robotics System Using Machine Learning USIM | 2023

Involve in completing the project of detecting and locating the survivor by estimating the distance between the location of drone and the survivor in Search and Rescue (SAR) operation. NVIDIA Jetson Xavier was used as the on-board processing unit and integration with ZED 2 Stereo Camera to get the depth sensing.

Grant code: USIM/MG-UTM_CRG/FKAB/055012/71119

Autonomous Human Detection and Localization Using Machine Learning | USIM | 2023

Involve in completing the project using YOLOv5 for onboard processing to get real-time detection from drone. VisDrone dataset was used to train the model.

Grant code: USIM/KKP-S01/FKAB/LUAR-K/43820

Client Roster System (CRS) Project | NetbyteSEC Internship | 2023

Involve in CRS project with Java development team by helping the team in fixing known bugs using Java and the backend and Angular as the frontend framework. The project demonstrated my ability to analyse complex system, fix bugs and do enhancement on the system.

Object Detection from Unmanned Aerial System Using Deep Learning Algorithm | Final Year Project | 2022

Creating a real-time detection system using the Yolov5 model architecture with the integration of a VTOL drone. A Cognitive Project Management for AI (CPMAI) methodology is being used throughout the project.

FinEd | Hong Leong Bank Hackathon | 2021

FinEd which stands for Financial Edutainment was an idea in 48 hours Hackathon organized by Hong Leong Bank. It is an android mobile application that is built to solve financial literacy among the young generation.

An Naqlu | MaGIC Innovation Competition | 2021

An innovative transportation system project focusing to help university students at low cost. The competition was organised by Malaysia Global Innovation and Creative Center (MaGIC).

iBus | Bus Management System | 2021

iBus was developed for the Software Engineering subject. It was intended to improve the bus management system in USIM where students and drivers could see the real-time bus location, pathway, schedule, and demand.

Honeypot Project | NetbyteSEC Internship | 2023

Involves in setting up a simulated system with vulnerabilities to attract attackers. The purpose of this project is to gather information and learn how their attack, techniques, intentions and how to enhance the security.



CERTIFICATIONS AND RECOGNITIONS

University Board of Directors Award | Dec 2023

I have been awarded with "Anugerah Lembaga Pengarah Universiti" during the 21th convocation in Universiti Sains Islam Malaysia.

The Best Academic Award CGPA:3.93 | Bachelor of Computer Science with Honours | July 2023

I have been awarded as the top performer in Faculty of Science and Technology among all students with CGPA of 3.93.

EC-Council | Certified Network Defender | July 2023 | Certificate No: ECC9204738651

Certified Network Defender is issued by EC-Council to train an individual with the skills to protect and defend organizational network against cyber threats.

HCIA-AI | Huawei Technology | Dec 2021 | Certificate No: 010102001495808462731388558

HCIA-AI certification is intended to popularize AI and help understand Deep Learning and learn the basic capabilities of programming based on the TensorFlow framework, as a motive to promote talent training in the AI industry.



 Java
Proficient

 PHP
Intermediate


 MySQL
Proficient

 Python
Proficient

 Pytorch
Proficient

 Spring boot
Proficient

 Laravel
Intermediate

 PostgreSQL
Proficient

 C++
Proficient

 Tensorflow
Intermediate

 Angular
Proficient

 Vue.js
Intermediate

 Firebase
Proficient

 Android
Proficient

 Docker
Proficient



AWARDS AND ACHIEVEMENTS

Dean List Award | Faculty of Science and Technology

Accomplished dean list award for every semester. Awarded by the Faculty of Science and Technology, USIM.

GOLD MEDAL and Top 5 International Learning Innovation Competition 2022 (PIP 2022)

Innovation competition organized by University Teaching Learning Center (UTLC), UUM

GOLD MEDAL International University Carnival on e-Learning 2022 (IUCEL 2022)

A group of four participated in the Invention, Innovation & Design on e-Learning (IIDEL) Competition category. FinEd: Financial Literacy Through Edutainment.

GOLD MEDAL 2nd Innovation Bank Challenge 2022 (IBC'22)

A competition organized by USIM focusing on contribution to the ummah through innovative solutions.

SILVER MEDAL International e-Content Development Competition 2022 (eCondev2022)

Pitching competition focusing on innovative content development for teaching and learning conducted by UiTM.

GOLD MEDAL Pertandingan Amalan Inovasi Pengajaran dan Pembelajaran Karnival Inovasi UMT 2021

An innovation competition organised by UMT during Covid 19 on innovative learning. A team of four with the creation of FidEd mobile application focusing on financial literacy.




Top 14 Can You Hack It ASEAN Edition 2021 Virtual Hackathon

48-hour virtual hackathon competition organised by Hong Leong Bank by solving specific problems given by the organizer in the scope of the financial banking system.






REFEREES




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