



# MOHAMMAD NASRULLAH BIN MANAP

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## Summary

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I am a highly motivated Software Engineering graduate with a strong focus on web development. Seeking entry-level to apply hands-on experience in building web applications using Laravel, Flutter, RESTful APIs, and MySQL. Experienced in both backend and frontend development, including database design and management using MySQL, phpMyAdmin, and Laragon. Committed to writing clean, maintainable code, developing scalable features, and collaborating effectively within development teams to deliver functional and reliable web solutions.

## Project

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### AMD SYNERGY WORKSHOP MANAGEMENT SYSTEM | Final Year Project

- Developed a web-based system using Laravel, PHP, JavaScript, CSS and MySQL for managing customer details.
- Implemented CRUD operations and dynamic data handling.
- Developed a comprehensive web-based management system for a real-world welding workshop (AMD Synergy).
- Implemented **customer management**, allowing admin to create, view, update, and delete customer records.
- Designed dynamic **quotation and invoice builder modules** with material selection, price calculation, and summary generation.
- Integrated **admin and customer roles** with secure access controls; customers can log in to view personalized quotations and invoices.
- Enabled **real-time total calculation** and dynamic table rows using JavaScript for seamless UX.
- Designed an **admin dashboard** with KPIs and **Chart.js** visualizations to track sales and customer data.
- Focused on practical usability and streamlined workshop workflow through digitalization.

### Habit-Based Obesity Classification using Machine Learning | Data Mining Research Project – R language (ML models & evaluation)

- Designed and implemented a comparative machine learning pipeline for classifying obesity based on lifestyle and health behavior data—demonstrating core AI model-building capabilities.
- Applied feature engineering and preprocessing techniques to enhance model accuracy and reliability, reflecting real-world ETL and model readiness challenges.
- Trained and compared multiple ML models including Decision Tree, K-Nearest Neighbors, Neural Networks, and K-Means Clustering, reflecting familiarity with diverse AI frameworks.
- Conducted performance evaluation using accuracy, precision, recall, and F1-score, across various train/test splits (30/70, 40/60, 50/50), showcasing strong grasp of model validation and selection.
- Delivered actionable insights to support predictive analytics in healthcare methodology easily transferable to customer behavior modeling and AI-driven personalization systems.

## Software Tester for UTHM Students Event Management System | Software Tester Project

- Developed Software Requirements Specification (SRS) and Software Design Specification (SDS) documents to define and plan system functionalities.
- Created Test Case Specifications and Test Design Specifications based on system requirements and design documents.
- Performed manual and automated testing to validate functionality and ensure software quality.
- Used Selenium WebDriver to automate functional test cases for a web application.
- Identified and documented bugs to resolve issues.
- Ensured test coverage across various modules to meet software quality standards.

## Strategic Plan Monitoring and Management System (S3P) | Internship Project

- Developed a web-based internal management system using Laravel and MySQL.
- Implemented structured modules for strategic plans, programs, and performance tracking.
- Built relational database design to support multi-level data hierarchy.
- Implemented role-based access control for different user levels.
- Developed dynamic reports and achievement summaries based on program status.
- Optimized backend logic using Laravel MVC best practices.
- Integrated frontend components with backend data for dashboards and reporting views.
- Maintained and tested features in a real organizational environment.

## Education

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University Tun Hussein Onn Malaysia (UTHM)

2022-present

Major: Software Engineering

Current CGPA: 3.50

Kolej Matrikulasi Kelantan

2021-2022

Major: Physical Science Stream

CGPA: 3.75

## Skills & abilities

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- **Programming Languages:** PHP, Java, Python, R, C, JavaScript
- **Web Development:** Laravel, HTML, CSS, Bootstrap
- **Databases:** MySQL
- **Data Science & AI:** Pandas, NumPy, Power BI
- **Testing Tools:** Selenium, Manual Testing
- **Version Control:** Git, GitHub

## Soft Skills

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- Communication
- Eager to learn new things
- Fast Learner
- Problem Solving
- Adaptability
- Attention to Details

## Certificates

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- CCNAv7: Introduction to Networks [Issued Aug 2024]
- Power BI for Beginners [Issued Dec 2024]
- Power BI Data Modelling Basics Tutorial Course [Issued Dec 2024]
- SAS Visual Analytics 1 [Issues Nov 2024]
- SAS Viya Overview [Issues Nov 2024]

## Languages

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- Malay
- English

## References

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