

# Mohamad Zakwan bin Abd Hamid

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Passionate computer science graduate with a solid foundation in software development, design, and testing. Demonstrated success in academic achievements and projects. Enthusiastic about teamwork and particularly passionate about front-end web and mobile development, while also open and eager to learn new technologies and explore full-stack and backend roles.

## EDUCATION

### UNIVERSITI SAINS MALAYSIA

Degree, Bachelor of Computer Science (Honours)

Major: Software Engineering

Minor: Management

October 2020 - August 2024

Penang, Malaysia

CGPA: **3.37**

## SKILLS

**Programming Languages:** Javascript, HTML CSS, Java, C#

**Frameworks:** React, React Native, Node.js (with Express), MERN stack, MVC Architecture, SpringBoot, ASP.NET, Tailwind, Bootstrap

**Databases:** NoSQL, Firebase, MongoDB, SQL, MySQL, Oracle Express

**Tools:** Git, Postman, Visual Studio Code, Canva, Figma, Azure DevOps, SonarCloud, PowerBI

## EXPERIENCES

### PETRONAS DIGITAL SDN BHD

March 2023 - August 2023

#### Digital Engineering Intern (DevOps Team)

Kuala Lumpur, Malaysia

- Created a Microsoft PowerBI user guide to be used by the Petroleum Engineering Department to view each project's performance.
- Fixed code smells for Expenditure Management System using ASP.NET based on the suggestion given by SonarCloud (Reduce 20% of the total code smells)
- Handled refresher session for Expenditure Management System for new staff to familiarise with the system and highlight some new features. (Received special focused recognition from team manager)
- Performed internal testing and was involved in User Acceptance Testing (UAT) for several applications. (Received special focused recognition from team manager)

## PROJECTS

### FYP: Educational Zero-Waste Campus Mobile and Web Application (PIXEL Silver Award)

- Developed a mobile application focusing on sustainability and zero waste using React Native for the front end and Firebase for the back end.
- Created a web application for admin management using React.
- Implemented four modules: Learning Module, Social Media-Like Module, BinFinder Module, and Marketplace Module.
- Aimed to raise awareness among students and staff and promote zero waste practices by providing digital tools.
- Develop manual test cases for all features to be tested by using **white and black box testing** methods.
- Utilized: **React Native, React, Firebase, Google Map API, Git**

### Banjirism Stock Management Web Application

- Collaborated on a group project for the Group Innovation Project and Study for Sustainability subject.
- Developed a web application to assist community halls in managing stock and minimizing waste during flood seasons.
- Focused on designing and implementing user-friendly interfaces.
- Utilized: **HTML, CSS, Javascript, MySQL, PHP, Bootstrap 4, CodeIgniter 3, Git**

### **Requirement Analysis for Solar Management System**

- Analyse software requirements and quality for Solar Management System in Foundations of Software Engineering and Software Requirement and Modelling subjects.
- Developed test case designs from various features to be tested.

### **Simple CRUD BookStore Web Application**

- Built a simple CRUD (Create, Read, Update, Delete) bookstore web application.
- Utilized: **MongoDB, Express.js, React, Node.js, Git**

## **HONOR AND AWARDS**

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### **Silver Award in Project Innovation & exploring in CS Education and Learning 2024 (PIXEL)**

- Received silver award for eZWC final year project.

### **Dean's List Award**

- Semester 2,7, and 8.

### **Focused Recognition by Upper Manager**

- Received focused recognition for successfully handling refresher sessions and being involved in UAT sessions during internship at Petronas Digital Sdn. Bhd.

## **REFEREES**

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### **Madam Noor Aziah Ahamad Azahari**

Intern Supervisor

Team Lead, Development Tribe, Product Delivery

Upstream, Petronas Digital Sdn. Bhd.

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### **Ts. Dr. Mohd Heikal Husin**

Final Year Project Supervisor

Senior Lecturer, University Sains Malaysia

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