

# MUHAMMAD IRFAN BIN MAZUKI

Software Engineer

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Current Address: Kajang, Malaysia

Date of Birth: 4<sup>th</sup> September 1999



Driven and adaptable software engineer with a strong interest in understanding business needs, streamlining workflows, and delivering efficient, automated solutions. Passionate about combining technical expertise with business understanding to create impactful systems that enhance productivity and user experience. Actively seeking new opportunities that allow me to collaborate closely with stakeholders, analyse business processes, and build end-to-end solutions.

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## WORKING EXPERIENCE

Oct 2022 -  
Present

### **Executive (Software Engineering), PETRONAS DIGITAL Sdn Bhd**

A versatile and results-oriented Software Engineer with experience in full-cycle software development, system integration, quality assurance, and cloud adoption. Proven ability to deliver reliable, secure, and scalable applications by applying strong engineering fundamentals, cross-team collaboration, and continuous learning.

#### **Key Contributions:**

- **Full-Stack Development:** Built and maintained enterprise web applications using modern frameworks and tools. Contributed to both front-end interfaces and back-end services while ensuring code maintainability and scalability and led a team to develop 4 high profile project worth of 5 million.
- **System Integration:** Led integration of core enterprise systems including Single Sign-On (SSO), SharePoint, and SMTP, Application Performance Monitoring across multiple environments (Development, Staging, Production).
- **Testing & Quality Assurance:** Applied a mix of manual and automated testing practices, executing over 500 regression and integration test cases in high-pressure scenarios to ensure bug-free releases.
- **Cloud & DevOps:** Leverage cloud such as AWS and Azure for cloud deployment, service configuration, and DevOps practices such as automated CI/CD pipelines.
- **Cybersecurity Practices:** Collaborated with the Cybersecurity team to remediate vulnerabilities and validate false positives from application scans, ensuring compliance with enterprise security standards.

#### **Achievements:**

- Recognized for rapid adaptation and effective problem-solving under pressure during critical release phases.
- Participated in internal hackathons and workshops, contributing innovative ideas to support PETRONAS's digital roadmap.
- Coached junior team members and citizen developers in low-code platform adoption and agile practices.

Mar 2020 –  
May 2025

### **Curriculum Advisor, Debug Lab Skills Learning Center**

I developed structured learning paths in full-stack web development, covering HTML, CSS, JavaScript, and PHP. I also built a gamification platform to boost student engagement through quizzes and leaderboards, maintained the website, and automated internal workflows to improve teaching efficiency. I also mentored junior instructors and supported branding efforts, contributing to Debug Lab's growth as a modern tech education centre.

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July 2017 – April 2018	<b>Software Engineer, Enotaker Technology Sdn Bhd</b> I was responsible for maintaining and enhancing a C#.NET-based system, ensuring stability while integrating new modules to meet evolving business needs. I took the lead in developing robust ASP.NET Web APIs to support the launch of a new Android and iOS mobile app, playing a key role in backend development using C#.NET. Beyond coding, I translated complex business requirements into clear, actionable documentation using UML diagrams and structured tables—bridging communication between technical teams and stakeholders and accelerating development cycles.
Jan 2015 – Dec 2016	<b>System Developer Intern, Perbadanan Insurans Deposit Malaysia (PIDM)</b> Participated in in-house developed system enhancement projects, tasks including study existing system program. Also participated in requirement analysis & system design development programming, system testing, support user acceptance test and system documentation.

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## CERTIFICATIONS

2024	<b>Microsoft Certified: Azure Fundamentals (AZ-900)</b> Demonstrated foundational knowledge of cloud concepts, Azure services, security, privacy, and pricing models.
Jan 2022 – April 2022	<b>APU Certified Data Analyst Associate - ACDA</b> This is a undergoing training certification programme sponsored under Yayasan Peneraju. The certification includes Certified Entry Level Python Programmer (PCEP) by Python Institute, Microsoft Certified: Data Analyst Associate (Microsoft Azure Data Fundamentals & Analyzing Data using Power BI) and APU Certified Data Analyst Associate (ACDA).
2018	<b>CCNA1 / CCNA2 Certification, Cisco Networking Academy</b> Foundation in Network System and Technology. Introduction to Networking and Routing and Switching Essentials CCNA courses, cabling, network standards.

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## EDUCATION

Sep 2018 – Feb 2022	<b>BSc Computer Science (Software Engineering), Universiti of Malaya</b> <u>CGPA</u> : 3.57/4.00 MUET: Band 4 <u>Related Coursework</u> : WIF3001 (Software Testing), WIF3002 (Software Process & Quality), WIF3004 (Software Architecture & Design Paradigm), WIF3005 (Software Maintenance & Evolution), WIF3006 (Component-based Software Engineering)
July 2017 – April 2018	<b>Foundation in Physical Science, University of Malaya</b> <u>CGPA</u> : 4.00/4.00
Jan 2015 – Dec 2016	<b>Sijil Pelajaran Malaysia, SMK Kompleks Mengabang Telipot, Terengganu</b> <u>SPM</u> : 4A+ 3A 2A- 1B+

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## AWARDS & SCHOLARSHIP

2017	<b>Biasiswa Program Ijazah Muda, Perbadanan Insurans Deposit Malaysia (PIDM)</b> Granted a scholarship from Perbadanan Insurans Deposit Malaysia to pursue my undergraduate study in Bsc Computer Science (Software Engineering)
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## TECHNOLOGY SUMMARY

**Languages & Frameworks:** OutSystems, C#.NET, PHP, Python, ASP.NET, Visual Basic (VB), JavaScript, HTML, CSS/LESS/SASS, Bootstrap, MVC, Entity Framework, React, Vue, Flutter, Wordpress, Linux

**Databases & BI:** SQL Server, MySQL, Power BI, SQL Server 2019

**Tools & Platforms:** GitHub, Docker, UML, Azure (Entra ID, SMTP, SharePoint integration), AWS (Cloud Practitioner), Katalon Studio

**Practices & Methodologies:** Agile, DevOps, Test-Driven Development (TDD), Regression/Integration Testing, CI/CD, Secure Software Development Lifecycle (SSDL)

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