

Mohamad Khairil Azizee Mohamed

Shah Alam, Selangor, Malaysia.
+60133461650
khairil114@gmail.com
<https://linkedin.com/in/khairilazizee>



Professional Summary

Results-driven Software Engineer with 10+ years of experience designing and building scalable web applications using **Next.js, Laravel, Python, JavaScript, and OutSystems**.

Strong background in API integration, backend systems, workflow automation, and data processing. Experienced in building internal platforms, data analysis pipelines, and scalable frontend systems.

Currently transitioning expertise toward **LLM-powered systems, AI-assisted development workflows, and Retrieval-Augmented Generation (RAG) architectures**, with interest in:

- Large Language Model applications
- Prompt engineering & evaluation
- Retrieval systems & vector databases
- AI-assisted developer tooling
- Knowledge systems and semantic search

Passionate about bridging software engineering fundamentals with AI research and production-ready LLM systems.

Core Competencies

Programming Languages

- PHP
- Python
- JavaScript
- HTML / CSS

Frameworks & Platforms

- Laravel
- Flask
- CodeIgniter

- Next.js
- OutSystems

Databases

- MySQL
- PostgreSQL
- MongoDB

Engineering Practices

- API Design & Integration
- System Architecture
- Agile Methodologies
- Git Version Control
- CI/CD Practices

Data & Reporting

- Python Data Analysis
 - Excel Reporting
 - Business Intelligence Dashboards
-

Professional Experience

Front-End & OutSystems Developer

Malaysian Digital Economy Corporation (MDEC)

Feb 2023 – Feb 2026

- Developed scalable front-end systems using Next.js, TailwindCSS, and OutSystems.
- Collaborated with cross-functional teams (designers, backend engineers, stakeholders).
- Led code reviews and maintained engineering standards.
- Implemented responsive UI systems across multiple devices.
- Improved development workflows using low-code acceleration.
- Participated in agile sprint planning and delivery cycles.
- Mentored junior developers and conducted knowledge-sharing sessions.
- Explored application of Large Language Models for automated question generation and answer evaluation.
- Researched and designed an AI-assisted workflow to improve grant application quality and completeness.

- Designed response validation logic to reduce hallucination and unsupported claims.
-

Backend Developer

Malaysian Digital Economy Corporation (MDEC)

Oct 2021 – Sep 2022

- Built backend systems using Laravel and Core PHP.
 - Designed and integrated complex REST APIs.
 - Managed large-scale MySQL datasets.
 - Developed Python-based data analysis scripts.
 - Delivered high-availability backend services supporting multi-channel applications.
-

Software Engineer

Uzma Engineering Sdn Bhd

Jul 2018 – Oct 2021

- Automated procurement workflows and internal business systems.
 - Contributed to digital transformation initiatives.
 - Developed SDMA solutions and Analysis Services reporting models.
 - Built real-time business intelligence dashboards.
 - Improved operational efficiency via internal automation platforms.
-

Web Developer

Aramis Group, Mont Kiara

Apr 2017 – Jun 2018

- Built responsive web applications using modern frontend frameworks.
 - Ensured cross-browser compatibility and optimized performance.
 - Collaborated closely with backend and UI/UX teams.
 - Implemented Git workflows and coding best practices.
-

Software Engineer & Web Developer

Velocity Technology, Subang Jaya

Jan 2010 – May 2016

- Delivered web applications and internal CMS systems.

- Designed proprietary CMS platforms for clients.
 - Implemented full-stack solutions using JavaScript, Python, Java.
 - Led cross-functional teams.
 - Mentored junior developers and improved sprint velocity.
-

Education

Bachelor's Degree in Computer Science

Universiti Teknologi MARA

2010 – 2012

Diploma in Computer Science

Institute Profesional Baitulmal

2004 – 2008

Certifications

- OutSystems Reactive Developer (2022)