# Muhammad Zulhanif Zairudin

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Portfolio: https://portfolio-blue-iota-85.vercel.app/

## PROFESSIONAL SUMMARY

Passionate about web development, frontend and full-stack software design, and improving user experiences through thoughtful UI and efficient application logic. Hands-on experience with React, Next.js, .NET, and API integration, coupled with real-world exposure to enterprise e-invoicing systems during a Technology Consultant internship at EY. Eager to grow in software and web development roles by building interactive applications, optimizing workflows, and contributing to collaborative, real-world projects.

## ACADEMIC

**Bachelor of Science in Computer Science**                                    **October 2022 - July 2025**
Lancaster University, United Kingdom

***Relevant Modules :*** Software Development, Software Design, Databases, Operating Systems, Distributed Systems, Computer Networks, Artificial Intelligence, Security and Risk

**International Baccalaureate Diploma Program (IBDP)**                **September 2020 - May 2022**
MARA College Banting
Result: 35 Points

## WORK EXPERIENCE

**Technology Consultant Intern**                                                 **September 2025 - Present**
*Ernst and Young, Kuala Lumpur, Malaysia*
- Contributed to the implementation and deployment of SAP-based e-invoicing systems for enterprise clients, supporting large-scale digital transformation of finance and invoice workflows.
- Designed and executed end-to-end system testing and user acceptance testing (UAT), ensuring functional correctness, data integrity, and regulatory compliance of SAP e-invoicing platforms.
- Built and maintained large-scale test datasets (1,000+ records) to simulate real-world invoicing scenarios (invoices, debit/credit notes and memos), validating edge cases and complex workflow behavior.

**Web Developer**                                                                    **July 2023 - September 2023**
*Freelance, Remote*
- Delivered a production-ready educational website for a primary school teacher, improving digital delivery of lesson content and increasing student engagement through interactive learning experiences.
- Translated user requirements into clear UI flows and interactive features, iterating with stakeholder feedback to refine usability and content structure.
- Engineered responsive, mobile-friendly interfaces using HTML, CSS, and JavaScript, ensuring cross-browser compatibility and smooth performance.
- Took ownership of the full development lifecycle (requirements gathering, design, development, testing, deployment), meeting tight deadlines and maintaining high code quality.

**IT Support & Marketing Intern**                                            **July 2023 - September 2023**
*Talita Laptop, Penang, Malaysia*
- Provided technical support and hardware upgrades for 50+ laptops, troubleshooting issues and improving system performance for customers.
- Designed promotional materials and engaged with 100+ customers, boosting product awareness and user experience.

## LEADERSHIP EXPERIENCE

**Student Ambassador - Interactive Peers**                              **February 2021 - February 2022**
*MARA College Banting*
- Supported 200+ students with inquiries on university applications, mental health, and wellbeing, providing guidance, resources, and follow-up to ensure effective peer support.
- Planned and executed 10+ workshops and speaker sessions, coordinating logistics, promotion, and scheduling to engage the student community and enhance learning and development programs.

## PROJECTS

**Payroll Management System**

*C#, .NET, React, SQL Server, JavaScript, HTML, CSS*

- Enterprise-grade payroll management system built with .NET 8, React, and SQL Server, following Clean Architecture principles for maintainable and testable code.
- Handles employee CRUD, working day management, skills, and salary calculations including birthday bonuses, with full RESTful API and responsive frontend UI.
- Implements Dapper for data access, unit testing with xUnit, global exception handling, and Swagger/OpenAPI documentation for backend endpoints.

**Fynecta Landing - Webflow to Next.js Migration**

*Next.js, React, TypeScript, JavaScript, HTML, CSS, Webflow, Lottie Web*

- Migrated a production Webflow site into a modern Next.js application, preserving animations, layout structure, and multi-page navigation while improving maintainability and performance.
- Refactored static HTML/CSS into reusable React components with TypeScript, improving code organization, making the codebase cleaner and easier to update as new pages and features were added.
- Implemented client-side routing, asset optimization, and animation re-initialization (Lottie), ensuring smooth user experience and consistent behavior across pages and devices.

**Portfolio Website**

*Next.js, React, TypeScript, Tailwind CSS, JavaScript, HTML, CSS*

- Designed and developed a portfolio website using Next.js and React, focusing on clean UI and smooth client-side navigation.
- Built UI components in React with a fast feedback loop during development, allowing quick testing and refinement of features.
- Built dynamic project pages using data from local JSON files, allowing new projects to be added by editing data instead of rewriting components.

**Book Library Management System**

*PHP, MySQL, HTML, CSS*

- Developed a full-stack, database-driven web application using PHP and MySQL to manage library records, implementing complete CRUD functionality for books and categories.
- Designed and implemented server-side validation and input sanitization to prevent common vulnerabilities (e.g., SQL injection, duplicate records), improving data integrity and application security.
- Implemented relational database design and SQL queries for common operations, improving data consistency and application performance.

## SKILLS

- **Programming Languages :** Python, Java, C, C#, JavaScript, TypeScript, PHP, SQL
- **Frontend & Web Development:** React, Next.js, Tailwind CSS, HTML, CSS, Webflow, Lottie-web
- **Backend & Full-Stack Development: :** ASP.NET Core, FastAPI, PHP, MySQL, MongoDB
- **Game & GUI Development:** Unity, Java Swing, Java2D
- **Tools & Platforms:** Git, GitHub, Linux, VS Code, Visual Studio, SSMS
- **Language :** English (Fluent), Malay (Fluent)

## VOLUNTEERING EXPERIENCE

**Mini Malaysia (Lancaster University Malaysian Society), United Kingdom**           **October 2024 - December 2024**
*Event Coordinator*

- Coordinated and delegated team activities for an international cultural event, managing over 50 team members to showcase Malaysia's unique heritage, crafts, and traditions to a global audience.
- Organized and led planning meetings, event logistics, and stakeholder communication, ensuring seamless execution of activities, exhibitions, and cultural presentations attended by hundreds of international visitors.

## EXTRACURRICULAR ACTIVITIES

**Google Kick Start 2020**

Participated in Google Kick Start 2020 coding competition and managed to get into round E.

**Model United Nations Conference 2020**

Represented Mexico in the SOCHUM committee, collaborating with global delegates on social and humanitarian issues.