



# ZULHILMI LATIFF

Full Stack Developer / DevOps / IOT Engineer

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Subang, Selangor

## ABOUT ME

Dynamic Fullstack Developer with three years of comprehensive experience in software development, specializing in React.js and Node.js. Strong expertise in building and maintaining robust web applications, with hands-on experience in mobile application development using Flutter. Proven background in Big Data Analytics (BDA), IoT systems, system integration, and process automation using N8N, including real-time data processing and automated workflows. Exposure to Machine Learning and AI-driven applications to support data-driven decision-making and intelligent system capabilities. Recognized for strong collaboration, performance optimization through code reviews, and a commitment to continuous learning and the adoption of emerging technologies to drive innovation, automation, and enhanced user experiences.

## EXPERIENCE

January 2024 – Present

Tulip Resources SDN BHD

### Full Stack Developer

#### Project: RMN - Intergrate Readiness and Information System (IRIS)

- Developed and maintained enterprise web applications using React.js, Node.js, and N8N in compliance with System Requirements Specification (SRS) and Agile project methodologies.
- Delivered and enhanced mission-critical modules across Engineering, Material, Operations, and Big Data Analytics (BDA) to support core business and operational workflows.
- Designed and implemented secure, scalable PostgreSQL database architecture to support reliable data management and system performance.
- Executed large-scale production data cleansing, validation, migration, and automated vessel data integration across the entire naval fleet using Python, cron jobs, and N8N to ensure data integrity, timeliness, and operational continuity.
- Migrated file-based APIs to MINIO object storage and implemented automated PDF report generation using JSReport to improve system scalability, data governance, and formal reporting.
- Performed system optimization, code reviews, and module enhancements to improve application stability, performance, and maintainability.
- Provided technical mentoring, physical training nationwide and remote user training to support system rollout, user adoption, and operational readiness.

#### Project: Akademi Seni Budaya dan Warisan Kebangsaan (ASWARA)

- Developed a web system using Laravel and Blade.
- Completed deliverables five months ahead of schedule despite inheriting an abandoned project.
- Implemented responsive design principles to enhance user experience.
- Conducted performance testing to ensure system reliability and efficiency.

March 2023 - December 2023

ALPS Alpine Malaysia LTD

### Software Engineer

- Software Engineer in Information Technology (IT) and Smart Factory (SF) Section.
- Solve IT problems in the Part Production Department including the Networking & Maintenance Device

**Internal Project : Material Moulding Part List (MMPL) E-Checksheets Website**

- Developed a web-based MMPL system to replace paper-based Material Part List checksheets, improving efficiency, data accuracy, and process automation.
- Implemented audit-ready approval workflows and reporting features, reducing manual effort, streamlining compliance and audit sessions.

**Internal Project : TVS (Training Verification System) & MANTRA Production Monitoring System (IoT)**

- Designed and implemented an IoT-based Training Verification System (TVS) using Raspberry Pi, RFID, GPIO, relays, RTC, and LCD, integrating with the ALPS Training System via system interfaces to validate operator authorization and control machine operations.
- Integrated TVS with machine testers and the MANTRA production monitoring system to automatically enable or disable machine operation based on operator authorization status.
- Developed the MANTRA real-time production monitoring system using Raspberry Pi, relays, barcode scanners, web-based dashboards for output tracker, OK/NG parts, downtime, and operator performance.
- Implemented real-time data transmission over LAN from Raspberry Pi devices to centralized servers for live operational monitoring and reporting.
- Automated production and downtime data capture through TVS–MANTRA integration to eliminate manual paper-based recording, improve data accuracy and operational visibility.

**LANGUAGE**

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|---------------------|----------------------|----------------|--------------|
| • N8N               | • Mobile Development | • Postman      | • Typescript |
| • PHP Laravel Blade | • Node.js            | • RESTful APIs | • Express    |
| • Phyton            | • C++                | • React.js     | • Postgres   |

**SKILLS**

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|--------------------------------|---------------------------|--------------------------------------|----------------------------------|
| • Strategic System Development | • System Design & Scoping | • Stakeholder Expectation Management | • Technical Feasibility Analysis |
|--------------------------------|---------------------------|--------------------------------------|----------------------------------|

**CERTIFICATIONS**

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|-------------------------------------------------------------------------------------|----------------------------------------------|
| • AWS Cloud Computing                                                               | • Microsoft Azure AI Fundamentals (AI-900)   |
| • Introduction of Wafer Fabrication Process Training Process (MIMOS)                | • Microsoft Power BI Data Analyst (PL-300)   |
| • Software Engineering Training by USAINS' Train & Place Upskilling Program Trainee | • Microsoft Azure Data Fundamentals (DP-900) |

**EDUCATION**

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2019 - 2023	<b>BACHELOR OF SCIENCE (HONS) APPLIED PHYSICS</b>
Universiti Sains Islam Malaysia	<b>MAJORING IN MICROELECTRONICS (IoT)</b>
2018 - 2019	<b>FOUNDATION OF SCIENCE AND TECHNOLOGY</b>
Universiti Sains Islam Malaysia	

**LANGUAGE**

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| • Bahasa Melayu | • English |
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