

SITI FIKRIYAH BINTI I.R. ABDUL KHAWI

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CAREER OBJECTIVE

Software Engineering student with experience in full-stack web development, IoT systems, and Java-based applications. Passionate about building scalable software solutions integrating hardware, backend systems, and modern UI design.

EDUCATION

Bachelor of Computer Science (Software Engineering) (Hons.) **Expected 2027**

Universiti Malaysia Terengganu, Kuala Nerus, Terengganu

CGPA: **3.56**

Relevant Coursework: Object-Oriented Programming, Software Architecture, Database Systems, Web Development, Intelligent Systems, IoT Computing

Matriculation in Science **2021 – 2023**

Kolej Matrikulasi Melaka, Melaka

CGPA: **3.79** | MUET: **Band 4**

SOFTWARE & IoT PORTFOLIO

HiroSumi — IoT Smart Stray Cat Shelter **Final Year Project 2026**

Full-Stack Developer

[🐙 GitHub](#)

- Built an AI-enhanced IoT smart shelter using MicroPython on Raspberry Pi Pico, Java (JSP/Servlets), MySQL, and BME280/PIR sensors to monitor temperature, humidity, pressure, and motion in real time.
- Integrated the Grok API to analyse live and historical sensor data, generating environmental summaries, heat trend insights, comfort analysis, and practical shelter improvement recommendations.
- Developed a role-based web dashboard with Chart.js visualizations, configurable thresholds, Telegram alert notifications, and automated actuator control for the heater, fan, and shelter lighting.

AeroTech — IoT Based Environmental Data Dashboard **2025**

Lead Developer

[🐙 GitHub](#)

- Deployed a remote IoT weather monitoring system using MicroPython on Raspberry Pi Pico to capture microclimate data during a 7-day mangrove ecosystem assignment.
- Built a responsive dashboard using JavaScript, HTML, and CSS to visualize live environmental data through interactive charts and structured reporting tools.

Veloura — Cinema Booking System **2025**

Frontend Developer

[🐙 GitHub](#)

- Spearheaded frontend development and UI design for a cinema ticketing platform using HTML, CSS, and JavaScript.
- Engineered the Movies Management module with real-time seat selection integrated into a Java (JSP/Servlets) and MySQL backend.

Cat Diary Cafe — Web Management System **2025**

Lead Developer

[🐙 GitHub](#)

- Built a full-stack Java web application using JSP, Servlets, and Apache Tomcat for reservation and cafe management.
- Implemented secure role-based access control and responsive Soft-UI interfaces for enhanced usability and operational efficiency.

WORK EXPERIENCE

Service Crew <i>Mixue Anggun Rawang, Rawang, Selangor</i>	2023
Teacher Assistant <i>KinderKaizen Anggun Rawang, Rawang, Selangor</i>	2023
Storekeeper & Cashier <i>Koperasi SMK Taman Desa, Rawang, Selangor</i>	2021

LEADERSHIP & CAMPUS INVOLVEMENT

- Facilitator and Committee Member (COMTECH): Guided first-year students in Java programming through Java Warriors and Arduino programming during RoboCamp Training of Trainers.
- Project Leader (Kolej Matrikulasi Melaka): Successfully organized a large-scale student event involving over 300 participants.
- Earned over 2,500 university merit marks through active participation in academic, social, and technical programs.

SKILLS & CERTIFICATIONS

Programming Languages	Java (JDK 17), JavaScript, Python, MicroPython
Web Technologies	HTML5, CSS3, JSP, Servlets, REST APIs
Frameworks & Concepts	MVC Architecture, Object-Oriented Programming (OOP), Apache Tomcat
Databases & Tools	MySQL, Git, GitHub, Chart.js, ThingSpeak, VS Code, NetBeans
AI & Analytics	Grok API Integration, AI-Assisted Data Analysis, Environmental Trend Analysis
IoT & Hardware	Raspberry Pi Pico, BME280, DHT22, MQ135, PIR Sensors, I2C/Relay Integration
Certifications	CompTIA Data+

REFERENCES

Dr. Farizah Yunus

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