

'AFFAN NAJIY BIN RUSDI

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PROFESSIONAL SUMMARY

Computer Science undergraduate with eight months of experience as a Software Development Engineer Intern at Keysight Technologies. Strong base in software development, databases, and systems problem-solving, with growing interest in networking and IT infrastructure.

PROFESSIONAL EXPERIENCE

Software Development Engineer Intern

Keysight Technologies Malaysia Sdn. Bhd., January 2026 – August 2026

- Developed a Python interface for OpenFOAM, a heat-transfer simulation tool. The interface replaced the command line and reduced meshing input time from five minutes to thirty seconds.
- Built a prototype cable design tool. The tool checked pin mappings, recommended parts from a catalogue, and produced complete 2D connector drawings, cutting validation time from three hours to thirty minutes.
- Updated the scoring criteria for the CM Quality MOR portal. The team uses the portal to evaluate contract manufacturer performance. Maintained the web portal for any issues as well.
- Developed a parts labelling system to print sticker labels from a network printer to standardize parts information.

EDUCATION

BACHELOR OF COMPUTER SCIENCE, May 2024 – Present

UNIVERSITI TEKNOLOGI PETRONAS

- Current CGPA: 3.82
 - Dean's List: May 2024 – May 2025 (4 consecutive semesters)

FOUNDATION IN COMPUTER SCIENCE, May 2023 – April 2024

UNIVERSITI TEKNOLOGI PETRONAS

- Final CGPA: 3.98
 - Dean's List: May 2023 – Jan 2024 (3 consecutive semesters)

ACADEMIC PROJECTS

HR Management System (C#, Firestore)

- Built an HR employee application as an academic project for a simulated company's HR department.
- Owned the Firestore integration for employee data.

Restaurant Database System (SQL, Oracle)

- Built a database system using Oracle for a local restaurant near campus.
- Designed the Enhanced Entity Relationship Diagram using Draw.io for project design reference, which consisted of 70 tables.

Weather Prediction Software (Python, Jupyter Notebook)

- Developed a linear regression model for weather prediction based on European countries' weather data.
- Documented the project in Jupyter Notebook for ease of distribution.

EXTRACURRICULAR AND VOLUNTEERISM

Down To Earth – NurRizq

Project Director, January 2024 – March 2024

- Led the distribution of 45 food-supply boxes to villagers in Kampung Indah, Pantai Remis, during Ramadan.
- Presented a paper on the project during the 9th Regional Conference on Student Activism (RECONSA).

Community Engagement Project (MPU4) – Sahom Sejahtera

Project Director, May 2025 – November 2025

- Led a team project to plant 40 trees at Kampung Sahom, Kampar, during the semester break.
- Secured a collaboration with Jabatan Perhutanan Negeri Perak for tree donations.

SKILLS

SOFTWARE

Python – Intermediate
C# - Intermediate
SQL - Intermediate

TECHNICAL

Technical Writing – Intermediate
Photography – Intermediate
Videography – Basic

LANGUAGE

Malay – Native
English – Fluent
Japanese – Basic

REFERENCES

Farahani binti Yusoff

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