

FAIZATUL FITRI BOESTAMAM

Database Administrator | Data Analyst | Data Engineer | BI Analyst

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PROFESSIONAL SUMMARY

Database Administrator with First Class Honours in Software Engineering (CGPA 3.89), managing 12+ mission-critical military systems under a Ministry of Defence IT contract at YHCM Sdn. Bhd. (Maxvec Group). Experienced across database administration, ETL and data engineering, business intelligence, system architecture, and stakeholder engagement at military command level — including Ketua Staf Tentera Darat (3-star General). Holds 2 peer-reviewed publications (IJCTS 2024, IEEE 2025) and 9 professional certifications. Transitioning toward Data Analyst, Data Engineer, and BI roles.

KEY ACHIEVEMENTS

- **300,000+ data points** — **ETL SPAKE 3.0→4.0**: single-handedly executed full manual pipeline — matching, cleaning, mapping, loading.
- **200,000+ data cells** — **SUTERA 2.0**: sole data engineer for full migration — PKJ, KJC, Kenderaan modules.
- **Minutes → 1 second** — **SPAKE 4.0**: identified Livewire/Filament bottleneck, proposed Vue.js frontend split, convinced team to change direction mid-development.
- **PERO contract escalation** — **BI Tools**: recommended Tableau over company preference; client followed, achieved Tableau professional certification.
- **Selected to brief Brigadier General (1-star) at Mindef**: led stakeholder communication for SPKB PUTD demo — project approved.
- **De-escalated conflict → KSTD demo (3-star + 2-star)**: interpersonal intervention enabled highest-level military engagement of the entire contract.

EXPERIENCE

YHCM Sdn. Bhd. (Maxvec Group) | Feb 2025 – Present

Database Administrator — Ministry of Defence IT Contract | Kuala Lumpur

Database Administration

- **Sole on-site DBA**: 12+ mission-critical military systems — SPAKE 4.0, SUTERA 2.0, FMS, EMESYS 4.1, e-ACTIVITY, SAKTI TD, SATRIA TD, Portal TD, and others.
- **Deployed OEM 24ai**: Oracle Enterprise Manager on Windows Server 2019 air-gapped environment — activation, configuration, handover documentation.
- **MySQL Enterprise License (1–4 socket)**: procurement proposal, activation, enterprise administration, OEM monitoring.
- **Automated backup & recovery**: Task Scheduler across 12 systems; monthly DB health reports; M2M & M2S replication with 3-year roadmap and staging tests.
- **PORTAL TD (Joomla CMS)**: database maintenance, VAPT remediation, UI fixes.

Data Engineering / ETL

- **SPAKE 3.0 → 4.0 ETL**: ~300,000+ data points matched, cleaned, mapped, validated, and loaded — full manual pipeline.
- **SUTERA 2.0 migration**: 200,000+ data cells injected, cleaned, and mapped across PKJ, KJC, and Kenderaan modules — solo.
- **EMESYS 4.1**: converted client PDF data to CSV, cleaned, and loaded into database for new module; contributed UI/UX and system flow recommendations.
- **FMS live tracking**: built coordinate lookup algorithm using API-extracted Pasukan and Kem data for real-time fleet location.

Application Architecture

- **SPAKE 4.0 reform**: identified Livewire/Filament bottleneck (minutes to load); proposed and implemented Vue.js frontend split — load time reduced to ~1 second. Convinced senior programmer to change direction mid-development.
- **AI integration** — **FMS**: planned, created training datasets, implemented AI into active military system development build.

Business Intelligence

- **BI tool evaluation**: mastered Termite EIS in 1 day; built 3-tool comparison (Tableau, Power BI, Termite); presented to military directors.
- **Tableau recommended over company preference**: escalated to PERO contract level; client followed recommendation, achieved Tableau professional certification; deployed Tableau and connected to Shatadal server.

Project Leadership & Business Analysis

- **FMS Team Lead**: facilitated 2-day URS workshop (40+ participants across multiple defence branches); mid-fidelity Figma mockups and ERD; ClickUp project management.
- **SPKB PUTD**: requirement gathering, system flow, Figma low-fidelity; selected to lead stakeholder communication for demo to Pengarah PUTD (Brigadier General, 1-star) at Mindef — approved.
- **POADKAL**: de-escalated internal team conflict before demo to Ketua Staf Tentera Darat (Leftenan General, 3-star) and Major General (2-star) — enabling highest-level engagement of contract.

Training & QA

- **Training delivery:** 10 sessions (5 days × 2/day) for e-ACTIVITY + SAKTI TD — ~20 Pembantu Awam and Pengurus (Major) per session. Also 2-week SPAKE training programme.
- **Functional QA:** tested SPAKE 4.0 and FMS — identified bugs, provided UI/UX and logic feedback; post-training e-ACTIVITY maintenance.

Enterprise Portfolio Div, ICT Dept, Sarawak Energy Berhad (SEB) | Feb 2023 – Aug 2023

OutSystems Developer, Internship Trainee | Kuching, Sarawak

- **Developed and maintained 12 internal management systems** on OutSystems across 10 departments and 10 branches — digitised manual workflows.
- **Built Tools and Budget Request (TBR) system:** end-to-end digital approval workflow — reduced processing delays by 40%.

EDUCATION

Bachelor in Computer Science with Honours (Software Engineering)

Universiti Malaysia Sarawak (UNIMAS) | 2020 – 2024 | CGPA: 3.89 | First Class Honours

- **Scholarship:** Sarawak Foundation Tun Taib Scholarship (BYSTT)
- **Dean's List:** 8 consecutive semesters
- **Expert Speaker:** AI Education in Malaysia — Telebort Talk & Tour Series (2024)
- **Team Leader:** PETRONAS BeDigital Bootcamp Cohort 8 (2024)

Foundation in Life Science

PPPU UNIMAS | 2019 – 2020 | GPA: 3.57 | Foundation Excellence Certificate

PUBLICATIONS

- **IEEE ICIQSE 2025:** Optimising Wind Energy Capture: An IoT-Based Approach to Height Adjustment in Roadside Wind Turbines. DOI: 10.1109/ICIQSE67247.2025.11390776
- **IJCTS Vol. 1 No. 3 (2024):** Enhancing IIoT Security: AI-Driven Blockchain-Based Authentication Scheme. DOI: 10.62951/ijcts.v1i3.19

CERTIFICATIONS (9)

- CompTIA Cloud Essentials+ (2024)
- Alibaba ACP Cloud Computing Certified Associate (2024)
- Google Professional Data Analytics Certificate (2024)
- Google Professional Cybersecurity Certificate (2024)
- Google Professional IT Support Certificate (2024)
- Scrum Fundamentals Certificate (2024)
- RapidMiner Professional — Machine Learning (2023)
- RapidMiner Professional — Data Engineering (2023)
- RapidMiner Professional — Application & Use Case (2023)

TECHNICAL SKILLS

- **Databases:** MySQL/MariaDB (DBBeaver/phpMyAdmin), Oracle DB (SQL Developer), PostgreSQL (pgAdmin), MongoDB, OEM 24ai
- **Data Engineering:** ETL, data migration, data cleaning, schema mapping, database replication (M2M/M2S), koordinat lookup algorithm
- **BI & Analytics:** Tableau (server deployment), Power BI (DAX), RapidMiner, Termite/EIS
- **Programming:** SQL, Python, PHP, JavaScript, R
- **Frontend & Design:** Vue.js, HTML/CSS, Figma (low/mid-fidelity), Adobe XD
- **Infrastructure:** Hyper-V, Windows Server 2019, Docker, Git/GitHub, Task Scheduler, Joomla CMS
- **Cloud:** Oracle Cloud, Alibaba Cloud (ACP Certified), Netlify
- **Tools:** draw.io (ERD/DFD), Microsoft Office, ClickUp, OutSystems, Canva