Uwais Alqarni

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EDUCATION

Singapore Institute of Technology (2024-Present)
- Bachelor of ICT (Software Engineering)

Nanyang Polytechnic
- Diploma in Information Technology
- Distinctions: UX Design | Networking Technology

TECHNICAL PROJECTS

Tabayyun (Hybrid AI Food Scanner) | *React, TensorFlow.js Python*

- Engineered an offline-first PWA using YOLOv8n for object detection and Tesseract.js for edge-device OCR.
- Optimized mobile inference performance by implementing dynamic resolution scaling, reducing crash rates on IOS.
- Built a heuristic data cleaning pipeline to correct OCR errors in Korean text with 95% accuracy.

Project Sentinel (Real-time Anomaly Detection) | *Kafka, Scikit-Learn, Docker*

- Designed a high-throughput pipeline ingesting 50+ events/sec using Apache Kafka and Zookeeper.
- Deployed an unsupervised Isolation Forest model to detect statistical outliers in user telemetry with sub-100ms latency.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript/TypeScript, SQL, R, Java.
- **Technologies:** Next.js, React, Vue.js, Docker, Kafka, FastAPI, TensorFlow.
- **Data:** PostgreSQL, ChromaDB, Pandas, NumPy.

PROFESSIONAL EXPERIENCE

Aktus MU Kreativ | Singapore   **Sep 2021 - Nov 2021**
Software Engineer Intern

- Improved an existing Progressive Web App to support offline clock-in/out functionality, ensuring accurate attendance tracking and preventing misuse during network outages
- Built and deployed a lightweight ML model to forecast product pricing, leading to a 15% boost in website revenue through smarter pricing strategies

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AWARDS AND ACHIEVEMENTS

- Director's List | Top 15% in cohort   **2021, 2022**

CERTIFICATIONS

Google Data Analytics Specialization
Coursera Certificate   **2022**

EXTRACURRICULAR ACTIVITIES

21km Half Marathon
Participated in a Half Marathon   **2023**