Muhammad Abqari Zulkifli

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SUMMARY

AI developer and cybersecurity specialist focused on **agentic AI** and secure full-stack systems. Delivered a real-time restaurant ops platform (**Smart Kitchen**) by integrating **AWS** and **Strands SDK** for intelligent orchestration. Proficient in **Next.js, TypeScript, Supabase, PostgreSQL**; experienced with **Selenium, Robot Framework, JMeter, Swagger** for QA/performance; deploys NLP Pipelines with measurable impact.

EXPERIENCE

Telekom Malaysia R&D (TM R&D)
Cyberjaya, Malaysia
Intern, Quality Engineer
Mar. 2025 – Sep. 2025

- **Cut test cycle time 25%** across Smart City modules by automating **60** end-to-end cases with **Selenium** & **Robot Framework**, streamlining regression packs.
- **Drove 100% sprint completion** pre-MVP by triaging, logging, and closing **15+** defects; partnered with developers to lower reopen rate via root-cause fixes.
- **Boosted DroneDB API reliability** by executing **Swagger+JMeter** performance suites to surface throughput bottlenecks and stabilize p95 latency.

Toastmasters UUM
Sintok, Kedah
Vice President of Education
Oct. 2024 – Mar. 2025

- **Increased member progress 25%** by implementing a personalized education tracker and a mentoring cadence.
- **Chaired 10+ meetings** and standardized evaluation workflows to improve feedback quality and speaker readiness.

Entrepreneurship & Leadership Bureau, Inasis SME Bank
Sintok, Kedah
Secretariat
Dec. 2022 – Oct. 2023

- **Coordinated 5+ events** (50+ attendees each), improving on-time starts and reducing vendor issues.
- **Raised engagement 20%** by redesigning communication scheduling and pre-event touchpoints.

IEEE UUM
Sintok, Kedah
Active Member (Cybersecurity)
May 2024 – Present

- **Led cryptography workshop** (*Intro to CTF*) for **20+** participants; co-designed challenges and ran post-event debriefs.
- **Supported 3 security events**, expanding member participation and strengthening beginner pathways.

PROJECTS

Smart Kitchen — *Next.js, Node.js, AWS, Amazon Nova Pro, Strands SDK*   Great Malaysia AI Hackathon 2025
- **Orchestrated real-time restaurant ops** by integrating **Strands SDK** with **AWS** & **Amazon Nova Pro**, enabling intelligent task routing and order prediction.

QAGenius — *NLP, Gemini API, Python, Robot Framework*
- **Reduced QA effort 40%** by automating **URS → UAT → test-script** conversion; standardized test artifacts across modules.

PhishGuard — *Random Forest, Feature Selection, Tableau*
- **Achieved 92% F1** on phishing-URL detection via feature engineering and dimensionality reduction; published visual analyses for reproducibility.

UI Structure Mapper (Ultima) — *Chrome Extension, JavaScript, XPath*
- **Accelerated QA locator mapping** with **Ctrl+Click** capture; **published on Chrome Web Store** and adopted by global QA users.

Project Typhon — *Python, Gemini 1.5/2.5, JMeter*
- **Improved QA throughput up to 30%** by generating JMeter load tests from natural language prompts via dynamic JMX creation.

Project Geass — *React 18, Node.js, Geoapify, OpenDOSM, Gemini*
- **Optimized location decisions** by fusing AI with geospatial data for real-time, locally relevant mapping insights.

PowerCastMY — *Python, ML, Malaysia Energy Datasets*
- **Delivered energy-use forecasts** through feature-engineered models; released code open-source to encourage collaboration.

ACHIEVEMENTS

Rawsec CTF (2023)	Top-10 finalist among 200+ participants
ASCIS CTF (2024)	Final round with top ASEAN universities
IBOH CTF (2024)	Represented university in international round

EDUCATION

Universiti Utara Malaysia (UUM) — Sintok, Kedah
Bachelor of Computer Science (Hons), Major: Cybersecurity

TECHNICAL SKILLS

AI & Prompt Eng: LLM prompt design, agentic AI, agentic patterns, Gemini API, NLP Pipelines, model evaluation
Development: Next.js, React 18, TypeScript, Node.js, Express, Supabase, PostgreSQL, Vercel
Cloud: AWS, Google Cloud Platform (GCP), Docker, Kubernetes
Security: Kali Linux, Wireshark, Burp Suite, Penetration Testing, Vulnerability Scanning
QA: Postman, Selenium, Robot Framework, JMeter, Swagger, Automated testing, Performance testing
Data & BI: Tableau, Power BI, Excel
Automation: n8n, process automation, workflow automation, integration with APIs
Programming: Python, Java, C — **Languages**: Malay (native), English (fluent)

CERTIFICATIONS

Cisco: CCNAv7 — Switching, Routing & Wireless Essentials; Network Security
LinkedIn Learning: Cybersecurity Foundations; Security Architecture; Cloud Security; GRC
Microsoft Power BI Certification (in progress)
CCSD Big Data Analytics Certification (in progress)
AWS: Cloud Quest — Security (Nov 2025), Cloud Quest — Cloud Practitioner (Oct 2025), Cloud Quest — Generative AI Practitioner (Oct 2025), Academy Graduate — Generative AI Foundations (Oct 2025), Certified AI Practitioner (AIF-C01, in progress), Developer — Associate (DVA-C02, in progress), Solutions Architect — Associate (SAA-C03, in progress)

REFERENCES

Mohd. Nawawi bin Bakhtir
Senior Researcher
Telekom Malaysia R&D

Suwannit Chareen Chit a/l Sop Chit
Lecturer, School of Computing
Universiti Utara Malaysia