MUHAMMAD TAYYAB

Kuala Lumpur, Malaysia | +60 18-281 9784 | tayyabofficial0976@gmail.com | GitHub | LinkedIn
Nationality: Pakistan | International Student in Malaysia



PROFESSIONAL SUMMARY

Computer Science student at Methodist College Kuala Lumpur and two-time Dean's List recipient (semester GPAs of 3.82 and 3.80), with hands-on experience in full-stack software development, databases, data analytics, machine learning and cybersecurity. Built and launched four working applications, three of them live online and one used in a family-owned factory to replace manual order preparation. Gained part-time work experience in technical and e-commerce operations support. Ranked 39th of 615 participants (top 6.3%) in CyberZerk CTF 2026, and competed in TAMiNG iCTF8 and the DAX Challenge 2026 data and AI competition, and served as Event Coordinator for MCKL Sport Carnival 2025. Holds the Google Advanced Data Analytics Professional Certificate and the AWS Academy Cloud Foundations certificate.

Availability: 12 January – 4 April 2027 (12 weeks) | Final Diploma module | Expected graduation: May 2027

EDUCATION

Methodist College Kuala Lumpur (MCKL) | Kuala Lumpur

CGPA: 3.49/4.0 **2025 - Present**

Qualification: Diploma in Computer Science

Relevant coursework: Web Development (PHP/MySQL/JavaScript/CSS), Data Structures, Object Oriented Development (Java, Spring Boot), Data Analytics (SAS Viya), Human-Computer Interaction, Database Systems, Design Thinking, Cloud Computing (AWS).

TECHNICAL SKILLS

Programming languages: Python, Java, PHP, JavaScript, TypeScript, SQL

Web and API development: React, TypeScript, Vite, Tailwind, HTML, CSS, FastAPI, Pydantic, Spring Boot (Java), PHP/PDO, REST APIs, session-based authentication

Databases: PostgreSQL, MySQL/MariaDB, SQLite; SQLAlchemy, Alembic migrations, relational schema design, transactions and CRUD operations

Tools and platforms: Git/GitHub, GitHub Actions, Electron, XAMPP, Android Studio, Vercel, Render, Neon, Microsoft Office (Word, Excel, PowerPoint)

Data and ML: Python (pandas, Matplotlib, SciPy), scikit-learn, Tableau, SAS Viya;EDA, hypothesis testing

Security and quality: Password hashing, prepared statements, CSRF tokens, session rotation, rate limiting; automated backend, frontend and Playwright browser testing; CTF practice (Kali Linux)

Soft skills: Technical troubleshooting, documentation, event coordination

Languages: English (Fluent) , Urdu (Fluent) , Punjabi (Fluent) , Bahasa Malaysia (Daily Conversation)

TECHNICAL PROJECTS

SCAMGUARD: Multi-Modal Scam Analysis Platform | *Solo capstone project (Ongoing)* **2026**

React 19, TypeScript, FastAPI, SQLAlchemy, PostgreSQL, scikit-learn, Playwright | GitHub | Live Demo

- Built and deployed a full-stack platform that analyses suspicious messages, URLs, phone numbers and QR codes, returning a risk level, a separate confidence score, the supporting evidence and the limits of each result.
- Implemented sign-up and sign-in, password recovery, private analysis history with deletion, filtered search, live camera QR scanning with an image-upload fallback, and scikit-learn message classification.
- Wrote 580+ automated tests (365 backend, 164 frontend and 52 Playwright browser tests, all passing) and deployed the app on Vercel, Render and Neon PostgreSQL.

ResumeIQ: Explainable Resume and Job Matching | *Full-stack personal project* **2026**

React, TypeScript, Tailwind, FastAPI, SQLAlchemy, PostgreSQL, pypdf | GitHub | Live Demo

- Built a web application that extracts text from PDF resumes, compares it with a job description and scores eight categories, each showing the matching evidence and the missing skills.
- Implemented accounts with rotating refresh sessions, private saved reports, JSON export and account deletion; scoring is deterministic and works with AI switched off.
- Reached 266 backend and 62 frontend passing tests with 91.79% coverage on the analyzer, service and security modules; deployed on Vercel, Render and Neon with architecture and limitations documented.

MCKL Mart: E-Commerce Web Application | *Web Computing coursework* **2026**

PHP 8, MySQL/MariaDB (PDO), HTML, CSS, JavaScript, GitHub Actions | GitHub | Live Demo

- Developed a PHP/MySQL storefront with category filters, keyword search, a session cart with stock checks, guest and account checkout, and per-account order history.
- Secured accounts and checkout with password hashing, session rotation, hardened cookies, prepared statements, output escaping, CSRF tokens and rate limiting.
- Created orders inside database transactions with row locking, stock deduction and rollback on failure; tested with PHP CLI and cURL scripts plus GitHub Actions.

SlipFlow: Factory Order & Tailor-Slip Automation | *Windows desktop app, released v1.0.0* **2026**

Electron, React 19, TypeScript, Tailwind, SQLite, SheetJS, Playwright | GitHub

- Built a desktop app that turns TikTok Shop, Shopee and Lazada order exports (CSV, XLS, XLSX) into printable A4 tailor slips after operator review, replacing manual order consolidation at a family-owned factory.
- Implemented saved column mappings per marketplace, duplicate detection, SKU mapping with bulk import and conflict reports, and a review queue for invalid data; 96 automated checks and 2 Playwright UI scenarios passing.

WORK EXPERIENCE

Technical & E-Commerce Operations Support | *Family manufacturing business, part-time* **2025 - 2026**

- Investigated account and operational issues on TikTok Shop Seller Center and other online seller platforms to support everyday order management.
- Updated company details and seller-platform settings and assisted with troubleshooting affecting online business operations.
- Supported order management alongside staff preparing orders for production and packing; seeing orders consolidated by hand led me to build SlipFlow.

AWARDS AND CERTIFICATIONS

Dean's List, MCKL (twice): Semester GPAs of 3.82/4.00 and 3.80/4.00. **2026**

AWS Academy Certificate of Completion - Cloud Foundations | Amazon Web Services **2026**

Google Advanced Data Analytics Professional Certificate (Coursera, 7 courses) Link **2026**

CyberZerk CTF 2026: Ranked 39th of 615 participants (top 6.3%), 50 challenges solved. **2026**

TAMiNG iCTF8, UiTM: Capture The Flag competition, representing MCKL. **2026**

DAX Challenge 2026, UMPSA: Data and AI competition, Team Mantap. **2026**

LEADERSHIP AND COMMUNITY INVOLVEMENT

Sport Carnival 2025 | Event Coordinator **2025**

- Assisted with planning, logistics and coordination of student sporting activities.

Recycling Service-Learning Initiative **2025**

- Completed 20 hours of service-learning focused on recycling and environmental awareness.