

MUHAMMAD RIDZUAN BIN BAKAR

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PROFESSIONAL SUMMARY

Computer Science graduate specializing in Graphics and Multimedia Software, with practical experience in software development, system automation, game development, image processing, and AI data annotation. Experienced in building user-focused systems, improving operational workflows, and collaborating in both technical and cross-functional teams. Passionate about developing innovative software solutions, solving complex technical challenges, and continuously expanding expertise in software engineering and emerging technologies.

WORK EXPERIENCE

Data Annotation Specialist TDCX

January 2026 – June 2026

- Annotated, classified, and labeled large-scale datasets for artificial intelligence and machine learning model development, ensuring all data met strict project specifications, consistency standards, and annotation guidelines.
- Performed detailed quality assurance reviews on completed annotations by validating data accuracy, identifying inconsistencies, and maintaining high precision across high-volume data processing environments.
- Analyzed ambiguous, edge-case, and exception-based scenarios using project guidelines, collaborating closely with quality assurance teams to improve annotation accuracy, workflow efficiency, and process documentation.
- Maintained strong productivity, turnaround time, and quality performance metrics while working in deadline-driven environments, consistently supporting project delivery and operational objectives.

Sales Assistant CeX

October 2025 – January 2026

- Managed daily retail operations including point-of-sale transactions, cash handling, payment processing, and end-of-day sales reconciliation while ensuring full compliance with company financial procedures and operational standards.
- Conducted technical inspection, functional testing, and product evaluation of pre-owned electronic devices to determine resale condition, market competitiveness, and pricing accuracy based on company guidelines.
- Delivered high-quality customer service by assisting customers with product inquiries, trade-ins, purchases, and technical recommendations, ensuring a smooth and positive retail experience.
- Supported inventory management activities by monitoring stock movement, maintaining accurate product records, and ensuring merchandise was properly displayed and organized to maximize sales performance.

System Developer Intern Reservoir Link

September 2024 – February 2025

- Supported digital transformation initiatives within the QHSE department by enhancing the user interface and user experience of the existing Equipment Tracking System (ETS), while identifying process improvement opportunities to improve system usability and operational efficiency.
- Designed, developed, and implemented internal business applications and workflow automation solutions using Microsoft Power Apps, Microsoft SharePoint, and Microsoft Power Automate to streamline departmental operations and reduce manual administrative tasks.
- Developed specialized web-based systems including an Underbalance Pressure Calculation platform and a Corrective Action Request (CAR) notification system to support operational monitoring, reporting accuracy, and internal communication processes using Python, html and JavaScript.
- Produced interactive business intelligence dashboards and analytical reports using Microsoft Power BI and Microsoft Excel, while also supporting the marketing team with the creation of digital design materials including posters, presentations, and promotional content using Canva.

EDUCATION

Bachelor of Computer Science (Graphics and Multimedia Software) with Honours

October 2021 – July 2025

Universiti Teknologi Malaysia (UTM)

CGPA: 3.21

Science Major (Module 2)

August 2020 – June 2021

Kolej Matrikulasi Pulau Pinang

CGPA: 3.50 | MUET: Band 3

Sijil Pelajaran Malaysia (SPM)

January 2015 – November 2019

Sekolah Menengah Kebangsaan Penang Free School,

SKILLS & COMPETENCIES

Hard Skills

- **Software Proficiency:** Microsoft Office Suite (Word, Excel, PowerPoint), Microsoft Power BI, Microsoft Power Apps, Microsoft SharePoint, Microsoft Power Automate, OpenCV, Qt, Unity, Babylon.js, Firebase
- **Programming & Development:** Python, C++, C#, JavaScript, HTML, WebSocket, System Development, Workflow Automation, Web-Based Application Development, VR Game Development
- **Data & AI Technologies:** AI Data Annotation, Machine Learning Dataset Labeling, Data Classification, Quality Assurance Review, Image Processing, Contrast Stretching Techniques
- **Business Intelligence & Reporting:** Dashboard Development, Analytical Reporting, Data Visualization, Process Optimization, Operational Monitoring
- **Administrative & Operational Skills:** Documentation Management, Workflow Coordination, Inventory Management, Product Evaluation, Technical Inspection, Cash Handling, Sales Reconciliation, Customer Support

Soft Skills

- Communication
- Teamwork
- Problem-Solving
- Time Management
- Adaptability
- Attention to Detail
- Critical Thinking
- Customer Service
- Collaboration
- Organizational Skills

Languages

- **Bahasa Malaysia:** Native (Spoken & Written)
- **English:** Proficient (Spoken & Written)
- **Mandarin:** Intermediate (Spoken)

CERTIFICATIONS

- AWS Academy – Cloud Foundations
- Kaggle – Basic Python Certificate

SELECTED PROJECTS

Full-Stack Analytics Dashboard & Database Query System

- Designed and developed a full-stack web application featuring an active analytics dashboard and a database query management layout integrated with a custom chat interface.
- Implemented a secure, asynchronous backend using FastAPI to handle complex database search strings across historical database files, optimizing API data payloads.
- Built a dynamic, responsive front-end user interface using Bootstrap 5 and JavaScript, integrating custom-styled components such as uniform scrollable containers for overflow text and dynamic alert boxes for live record counters.
- Leveraged Chart.js to render real-time interactive business intelligence visualizations, mapping job distributions and metric data frequencies dynamically.
- Enforced modern Python software engineering workflows by migrating dependencies to the uv package manager, organizing the multi-directory structure into a unified uv workspace, and maintaining clean architecture standards utilizing the Ruff linter/formatter framework.

River Boy Journey: VR Experience

- Developed a story-driven virtual reality game using Unity and C#, collaborating with a development team to build an immersive gameplay experience with interactive environments and optimized user interaction.
- Designed and implemented terrain-based maps, environmental assets, and gameplay elements while contributing to game design planning, testing, and project development execution.

Image Processing Enhancement for Airport Baggage Scanner

- Designed and developed an image processing system using OpenCV, Qt, Python, and C++ to enhance X-ray baggage scanner images through contrast stretching techniques.
- Independently managed the full development lifecycle including system design, algorithm implementation, testing, and performance optimization as the sole developer of the project.

Collaborative Interior Designer System

- Developed a web-based collaborative 3D interior design platform using Babylon.js, HTML, and JavaScript with real-time multiplayer functionality.
- Implemented advanced rendering techniques and integrated real-time synchronization using Firebase and WebSocket technologies to support seamless multi-user interaction.

REFERENCES

Available Upon Request.