

MOHD RAIS FAIQ NICHOL

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SUMMARY

Software engineer with a background in embedded systems, currently building my full-stack web development skills with modern client- and server-side frameworks, while also exploring the exciting realms of artificial intelligence and functional programming. Over the past 5+ years, I've had the privilege of developing and deploying IoT-based products, creating user-friendly GUIs, and connecting applications to both local and cloud databases. As my company pivoted into the corporate gifts and premiums sector, I embraced the opportunity to expand my role by handling major client operations and managing e-commerce for their new brand. With experience bridging both hardware and software, I'm passionate about crafting meaningful digital solutions and eager to contribute to a focused, collaborative software engineering team.

PROFESSIONAL EXPERIENCE

Embedded System Engineer | Universum Venture Sdn. Bhd.

(2019 - present)

Specialized in designing and developing embedded systems, with a focus on low-level programming and hardware integration to ensure optimal performance and reliability. Integrated intuitive, touch-screen GUIs, emphasizing seamless UI/UX design to improve user experience. Incorporated robust database functionality for efficient data logging and remote system monitoring. Ventured into e-commerce operations and client management, gaining valuable cross-functional experience in both technical and business aspects.

Accomplishments:

- Engineered a commercial smart locker system from the ground up, using embedded C++ and Python to drive system control, logic, and performance.
- Developed and deployed intuitive Kivy-based touchscreen interfaces for both parcel and luggage locker systems, enhancing usability and administrative efficiency.
- Integrated real-time data tracking and diagnostics through local and cloud-based databases (PostgreSQL, AWS), improving system monitoring and reliability.
- Coordinated end-to-end deployment of locker hardware and software at REXKL, Kuala Lumpur, ensuring stable on-site performance and maintainability, a key collaboration with Buy For Impact Malaysia.
- Spearheaded e-commerce operations - managing product listings, sales strategies, and order fulfilment on Shopify, Shopee, and TikTok - supporting the company's expansion into new digital markets.
- Led client support and project operations, handling quotations, documentation, delivery coordination, and maintaining strong, ongoing client relationships.
- Contributed to business scalability through hands-on involvement in product ops, fulfilment logistics, and resolution of customer-facing issues.

EDUCATION

University of Technology, Sydney (UTS) - B.Eng (Electrical) / B.MedSci | Dip. Eng Practice

KEY SKILLS AND TOOLS

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| • Embedded Systems Development | • Database Management | • Problem Solving & Analytical Thinking |
| • Frontend & Backend Design | • Project Coordination | • Communication & Collaboration |
| • C++, Python, SQL | • E-Commerce Operations | • Continuous Improvement Mindset |