

William Jonathan

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PROFILE

Software Engineering student and full-stack developer with shipped production work across web, mobile, IoT, and game platforms. Built and deployed client projects in React, Next.js, and Supabase, including a real-time IoT platform and a 300+ member event system. QA tests unreleased titles for a global game studio while completing a dual degree at APU and DMU.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C#, Python, SQL, x86-64 Assembly (NASM)

Frameworks & Libraries: React, Next.js, Node.js, Tailwind CSS, Flutter, Laravel

Tools & Platforms: Supabase, Vercel, Git, Stripe, OpenRouter/Gemini API, CrewAI, FastAPI

EDUCATION

Asia Pacific University of Technology & Innovation (APU) <i>BSc (Hons) in Software Engineering</i>	Kuala Lumpur, Malaysia <i>Sept 2024 – Present</i>
De Montfort University (DMU) <i>Dual Degree in BSc (Hons) in Science</i>	Leicester, England <i>Sept 2024 – Present</i>
National University of Singapore <i>Advanced Professional Certificate in Full Stack Development with AI</i>	Singapore <i>Oct 2025</i>

WORK EXPERIENCE

SHOUT PTE. LTD. <i>QA & UX Tester (Freelance)</i> Led end-to-end QA/UX testing on a live marketplace platform, uncovering 40+ critical bugs blocking checkout and enabling unauthorized purchases.	Remote, Singapore <i>Aug 2026 - Present</i>
GBTN by Keywords Studios <i>Community Game Tester (On-Call)</i> - Stress-tested multiplayer servers across PC, console, and mobile for 3+ unreleased titles. - Logged structured UX and bug reports across multiple sessions with a 90%+ acceptance rate.	Remote <i>Mar 2025 - Present</i>
Triple Tree Enrichment Centre Sdn Bhd <i>Coding & Robotics Instructor & Curriculum Developer</i> - Designed and taught a robotics and coding curriculum for 20+ students aged 4 to 15+. - Formed a partnership with IntelekEdu, integrating their curriculum and ZMRobo robotics kits into the program.	Kuala Lumpur, Malaysia <i>Jun 2026 – August 2026</i>
CodeMaster Sdn Bhd <i>Coding & Robotics Instructor</i> - Taught programming, web development, logic, robotics, and game development to 50+ students aged 3 to 15. - Led 5+ hands-on projects per semester, including robotics and game creation, fostering creativity and problem solving.	Kuala Lumpur, Malaysia <i>Oct 2024 – June 2026</i>

SELECTED PROJECTS

FinSight - AI Financial Analysis & Compliance Pipeline 4-agent CrewAI pipeline that ingests real stock data, generates investment reports, and issues compliance verdicts (APPROVED / CONDITIONAL / REJECTED) with an enforced guardrail that retries until a valid decision is produced. - Features live SSE streaming to a terminal-style dashboard with candlestick charts, automatic rate-limit retry logic, and Supabase audit persistence — supporting Bursa Malaysia, US, HK, and SG markets.
Triple Tree CMS - Internal Management Platform - Replaced paper-based workflows at a private enrichment centre with a role-gated digital platform serving 10 staff and 20+ students, covering attendance, fee tracking, invoicing, and student progress reporting. - Implemented a tiered role system (HR, teacher) with HR-controlled staff onboarding via secure email invites, Supabase Auth, and a guided set-password flow, with built-in PDF generation for fee receipts and progress reports, a parent enquiry portal, and a bilingual (EN/ZH) interface. - Built with Next.js 14 (App Router), TypeScript, Tailwind CSS, Supabase (Postgres + Auth + RLS), shadcn/ui, Nodemailer, Vercel.
GMS Asia Events Management System - Solo engineered a full-stack conference management system with packages, early-bird pricing, QR-based attendance, and automated email + QR delivery via Nodemailer. - Integrated Stripe for international card payments alongside local bank transfer, processing 300+ conference registrations to date. - Staff dashboard with 4 roles, registrant filtering, CSV export, email blast, walk-in registration, and a live form theming engine. Built with Next.js 14, Supabase (PostgreSQL + Auth + Storage + RLS), Stripe, Nodemailer, Vercel.

ORGANIZATIONS & EXPERIENCES

Google Developer Group on Campus (APU) - Web Development Co-Lead	Sept 2024 - Aug 2025
GMS Church - Multimedia Coordinator	Sept 2024 - Present