Ian Qiu

University of Tasmania – 🎓 Bachelor (Hons) of Computing
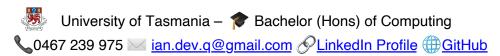📞 0467 239 975 ✉ ian.dev.q@gmail.com 🔗 LinkedIn Profile 🌐 GitHub

Professional Profile

Experienced Software Engineer with over 7 years of expertise in designing, developing, and scaling **web and cloud-based systems** across eCommerce, SaaS, and public-sector projects. Passionate about **AI-driven innovation**, **cloud architecture**, and **agile development**, with a proven record of delivering high-performance, user-focused solutions.

Proficient in **TypeScript, C#, PHP**, and modern frameworks such as **React, Next.js, Angular**, and **.NET Core**, with strong knowledge of **RESTful** and **GraphQL APIs**. Skilled in building **headless CMS** integrations and optimising system performance across front-end and back-end environments.
Hands-on experience with **Azure (App Service, Functions, CDN)**, **AWS (EC2, Lambda, S3)**, and **Vercel** deployments, leveraging **CI/CD pipelines (GitHub Actions, Azure DevOps, GitLab)** for automated, scalable delivery.

Recognised for **cross-functional collaboration**, **technical ownership**, and **mentoring across development teams**, with a strong commitment to **continuous learning** and **innovation**. Passionate about bridging **AI integration**, **DevOps practices**, and **cloud-native scalability** to deliver impactful, future-ready digital solutions.

Experience

Full Stack Developer   Jan 2025 – Current

Key Responsibilities:

- **Full-stack e-commerce development:** Design, build, and optimise large-scale web platforms using **React**, **Next.js**, and a **headless Adobe Commerce (Magento)** backend, delivering high-performance, accessible, and SEO-optimised user experiences.

- **System integration & optimisation:** Implement and maintain integrations between **Infor M3 ERP** and **Magento** via **AWS Lambda and API Gateway**, enhancing data synchronisation, scalability, and overall site performance through best-practice front-end architecture.

- **Technical leadership & collaboration:** Partner with UX, DevOps, and global teams to deliver Agile sprints through **CI/CD pipelines**, mentor developers in coding standards, and continuously improve MFG's digital commerce capabilities.

🚩 **Key Achievements:**

Main Developer – Midas Shoes Migration

- **Led the migration** of the Midas Shoes eCommerce platform from Classic Magento to a Headless CMS + Next.js stack, achieving **40% faster load times** and improved SEO rankings.

- Engineered integrations between **Magento, AWS Lambda,** and legacy ERP systems for **real-time data synchronisation** and scalable performance.

- Delivered the platform **on time and within scope**, enhancing site stability, maintainability, and user experience across all touchpoints.

Multi-Site Migration Project

- **Contributed to the large-scale migration** of key Munro Footwear Group brands — *Williams Shoes, Styletread, The Trybe,* and *Mathers* — from Classic Magento to a unified **Next.js** platform, ensuring scalability and consistency across multiple domains.

- **Standardised shared architecture and reusable UI components**, reducing duplicated code

and improving site maintainability and performance across all brand sites.

- **Collaborated with UX/UI and DevOps teams** to streamline deployment through **CI/CD pipelines**, improving accessibility compliance and achieving consistent user experiences company wide.

Apple Pay Express Checkout

- **Implemented Apple Pay Express Checkout** across multiple eCommerce platforms to simplify the checkout process and reduce friction for end users.
- **Integrated the solution** within the existing **Magento–Next.js** framework, maintaining PCI compliance and enhancing payment security and performance.
- **Delivered measurable UX improvements**, reducing checkout time and cart abandonment while boosting conversion rates and customer satisfaction.

RMplc **Software Engineer**   **Oct 2021 – Jan 2025**

LSE Listed- Code: RM

Key Responsibilities:

- **Full-Stack SaaS Development:** Designed and delivered end-to-end solutions across **front-end, back-end, and database layers**, including API design, data processing, and UI/UX development with optimised SQL queries for performance and scalability.
- **System Migration & Architecture:** Contributed to the migration from a **PHP monolith** to a **C# .NET Core microservices** architecture, leveraging **Azure Functions** and **API Gateway** for lightweight, serverless, and event-driven operations.
- **Accessibility & CI/CD Excellence:** Ensured **WCAG 2.0–2.2** compliance and maintained deployment quality through **Azure DevOps**, automated **CI/CD pipelines**, and Agile sprint management in **Jira**.
- **Collaboration & Mentorship:** Partnered with international clients to translate complex requirements into deliverables and mentored junior developers in **Angular**, **Node.js**, and coding best practices to strengthen team capability.

▶ **Key Achievements:**

Lead Developer - PISA2025 (Programme for International Student Assessment):

- Took ownership of the *PISA2025* assessment platform after the project lead's departure, ensuring stability and delivery continuity for the OECD-Europe international education program.
- Lead redevelopment and feature delivery under tight deadlines while managing stakeholder expectations and maintaining cross-regional communication.
- Acted simultaneously as **Project Manager, Analyst, and Lead Developer**, collaborating with OECD clients to translate requirements into actionable development tasks. Led design, QA, and production delivery of **WCAG-compliant** modules built with **React.js**, **TypeScript**, **PHP**, **Chart.js**, and **Blockly**.
- Successfully delivered two major platform modules **on time and within scope**, improving system stability and usability for global researchers, while earning formal recognition from **OECD-Europe** for leadership, quality, and client collaboration.

Algorithm Design - ICILS Machine Marking (International Education Project):

- Engineered a recursive algorithm to automate Blockly-based code evaluation for the ICILS international assessment, transforming manual review into a fully automated, scalable process.
- Drove Angular front-end modernisation, introducing modular architecture and reusable components that boosted performance and maintainability.

- Built data processing pipelines to auto-generate detailed scoring reports, cutting manual effort by over 70% and significantly improving assessment accuracy and turnaround time.

Lead Angular & Node.js Modernization:

- **Spearheaded the upgrade** of **Angular (v14→18)** and **Node.js (v14→18)** for RM Australia's flagship **SaaS platform, Assessment Master**, modernising the tech stack for improved speed, scalability, and maintainability.
- **Redesigned front-end architecture** with modular components and best practices, enhancing code reusability, accessibility, and long-term sustainability.
- **Contributed to system migration** from a PHP monolith to a **C# .NET Core microservices** framework with **Azure Functions** and **API Gateway**, enabling event-driven processing and cost-efficient scaling.
- **Mentored junior developers** in **Angular** and **Node.js**, strengthening code quality standards and fostering a culture of technical excellence across the team.

Lead D3.js Data Visualization Upgrade:

- **Led a full upgrade of D3.js (v4 → v7.9)** within the Assessment Master analytics platform, significantly improving **rendering speed**, **scalability**, and **interactive performance**.
- **Optimised data-visualisation pipelines** to handle large, complex educational datasets, reducing load times and improving responsiveness across dashboards.
- Delivered a **modern, insight-driven user experience**, empowering educators and researchers to interpret results more efficiently through advanced, dynamic visual analytics.

Test-Driven Development (TDD) Leadership:

- Implementing automated testing frameworks and coding standards that **cut defects by 40%** and **improved release reliability and team productivity**.

Web Developer   Dec 2019 – Oct 2021

Key Responsibilities:

- **E-Commerce Development:** Designed, developed, and deployed **Shopify** and **Neto** online stores, delivering enhanced functionality and user experience.
- **API Integration & Automation:** Built and maintained seamless API connections for **order processing, tracking, and partner integrations** across **Shopify, eBay, Neto,** and **AusPost**, ensuring real-time data synchronisation.
- **SEO & Data Management:** Implemented SEO-optimised product pages with dynamic metadata and monitored data flow across platforms to maintain accurate order and tracking information.

▶ **Key Achievements:**

Wholesale Integration System Development

- Built an **API-driven Node.js integration** linking partner systems with **Neto eCommerce**, automating order import and fulfilment.
- **Launched wholesale operations from zero**, reducing manual processing by **80%** and enabling real-time order synchronisation across platforms.

Full Stack Developer   Jan 2018 – Dec 2019

Key Responsibilities:

- **System Development:** Built a full-stack **product management and e-commerce platform** using **Laravel 5**, aligning functionality with business and sales objectives.
- **Architecture & Optimisation:** Designed **MySQL databases**, improved performance by resolving technical issues, and implemented **custom middleware** for scalability.
- **UI & Deployment:** Created responsive **Blade/Bootstrap** interfaces and deployed through **AWS EC2**, **Docker**, and **GitHub** in an **Agile/Scrum** environment.

FHL Group IT support   2016 – Jan 2018

Key Responsibilities:
- **API Management & Integration:** Managed and optimised APIs for PHP-based eCommerce systems, ensuring reliable communication between company websites, carriers, and third-party platforms.
- **Web Development & Feature Enhancement:** Developed new site features, including promotional templates and payment integrations, to improve customer engagement and conversion rates.
- **SEO & Product Optimisation:** Created and maintained SEO-friendly product listings with dynamic metadata, enhancing visibility and search rankings across platforms.

Education

Bachelor of Computing (With Honours)   Feb 2011-Aug 2014

- **Graduate Project:** Developed a Career Hub showcase website for future students using HTML, CSS, jQuery, and a Content Management System.
- **Honours Thesis:** *Using Hopfield Network to Understand Alzheimer's Disease* — applied **Artificial Intelligence, Neural Networks**, and **MATLAB** to model cognitive decline patterns.

Academic Achievement: Received 100% in two major assignments and tutorial work for *KXT309 Advanced Dynamic Web Development*, a full-stack project using LAMP and JavaScript/jQuery.

Reference

References' Contact Information Available Upon Request.