Ian Qiu
(Software Engineer)

University of Tasmania – 🎓 Bachelor (Hons) of Computing
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Career Objective

Experienced Software Engineer passionate about AI-driven innovation, cloud architecture, and agile development. Proficient in TypeScript, C#, and PHP, with hands-on experience across Azure and AWS. Dedicated to growing as a T-shaped professional—combining deep software engineering expertise with broad knowledge across AI integration, DevOps, and scalable cloud solutions

Skills

Languages: JavaScript (ES5-2021), TypeScript, C#, PHP, C++, Python
Cloud: Azure (App Service, CDN, Azure Functions), Vercel, AWS (EC2, Lambda, S3)
Back-End: .NET Core, Node.js, Laravel, Yii, Express.js, Next.js(Full Stack)
Front-End: React, Next.js(Headless Front End), Angular, SCSS/Sass, iOS
Databases: MySQL, PostgreSQL, SQL Server, MongoDB
CI/CD Tools: GitHub Action, GitLab, Jira, Azure DevOps Server
API: GraphQL,RESTful

Projects

Assessment Master(Link) | *.NET Core, CSS, PHP, TypeScript, Angular,Chart.js, D3.js, Blockly, Node.js, Azure Cloud Functions, Microservices Architecture*
Assessment Master is a cloud-based, microservices-driven online assessment platform used globally by governments, universities, and schools for remote testing and evaluation of numeracy, literacy, and ICT skills.

Munro e-Commerce Platform(Link) | *Next, React, CSS, Magento, JavaScript, CSS, SEO, GraphQL, AWS, CI/CD, Node.js*
Served as the main developer migrating the transition from Classic Magento to a Headless CMS and Next.js stack, resulting in faster rendering, improved scalability, and higher SEO rankings, with seamless integration to legacy backend services.

PISA 2023(Link) | *Chart.js, Blockly, PHP, TypeScript, Reactjs*
Created by the Organisation forEconomic Co-operation and Development (OECD), PISA tests the skills and knowledge of 15-year-old students in mathematics, reading and science.

Experience

Munro Footwear Group(Link) **Full Stack Developer (Jan 2025 - Present)**

- Full-Stack E-Commerce Development: Delivered a Next.js + React front end powered by a headless CMS Adobe Commerce (Magento) backend, achieving high performance, scalability, and SEO gains.
- System Migration: Migrated multiple e-commerce websites from Classic Magento to a modern Next.js architecture, improving scalability, performance, and maintainability.
- Performance Optimization: Leveraged SSR/SSG, reusable UI components, and optimized API calls to enhance page load speed, Core Web Vitals, and overall UX.
- UX/UI Collaboration: Collaborated with designers to deliver seamless, user-friendly, and accessible customer experiences.
- DevOps Collaboration: Worked with DevOps engineers to deploy applications efficiently

using CI/CD pipelines and cloud platforms, ensuring reliable and timely releases.
- Agile Practices: Managed sprint tasks, bugs, and features in Jira, aligning deliverables with project timelines and business goals.

Key Achievements:

Main Developer - Midas Shoes Migration:

- Served as the main developer for migrating the Midas Shoes e-commerce platform from Magento to a modern Next.js architecture.
- Delivered a faster, more scalable, and SEO-optimized platform while ensuring integration with existing backend systems and APIs.

Multi-Site Migration Project:

- Contributed to the migration of major Munro Footwear Group brands, including Williamsshoes, Styletread, TheTrybe, and Mathers, from Classic Magento CMS to Next.js.
- Improved site performance, scalability, and user experience across multiple domains.

Apple Pay Express Checkout:

- Implemented Apple Pay Express Checkout across Munro Footwear Group's eCommerce websites, enhancing checkout efficiency and user experience.

Skills & Technologies: *React.js, Next.js, TypeScript, GraphQL, Nodejs, PHP, CSS/SCSS, Magento, AWS, Microsoft SQL Server, API Integration, SEO Optimization, Agile Development, Jira, iOS Development*

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RM PLC (LSE Listed- Code: RM, Link) **Software Engineer(Oct 2021 - Jan 2025)**

- Full-Stack SaaS Development: Delivered end-to-end solutions involving database retrieval, API design, HTTP request handling, and UI/UX development, with advanced SQL optimization for efficient data processing.
- System Migration: Contributed to the transition from a PHP monolithic system to a C# .NET Core + SQL Server microservices architecture, enhancing scalability, reliability, and performance. Using Azure Serverless App Functions, integrating them via API Gateway to enable lightweight, event-driven microservices and cost-efficient scaling across the platform.
- Accessibility Compliance: Improved UI/UX to align with WCAG 2.0–2.2 standards, customizing third-party libraries to ensure accessibility compliance across the platform.
- Agile & CI/CD: Managed sprints through Jira (stories, tasks, bugs) and utilized Azure DevOps for deployments, version control, and automated CI/CD pipelines.
- Data Processing Algorithms: Designed algorithms to process raw data (e.g., student responses) and auto-generate scoring reports, reducing manual workload and improving accuracy.
- Team Mentorship: Provided training and guidance to junior developers in Angular and Nodejs, fostering best practices and improving team capability.
- Client Collaboration: Partnered with clients to translate requirements into actionable development tasks, ensuring delivery of WCAG-compliant designs and managing projects from development through QA to production.

Key Achievements:

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

- Assumed project leadership after the departure of the project lead.

- Successfully handled Project Manager, Business Analyst, and Developer roles simultaneously.
- Independently developed two mission-critical modules while acting as the primary liaison with OECD-Europe, negotiating requirements, delivering progress updates, and setting project timelines.

Lead Angular & Node.js Modernization:
- Spearheaded the update of Angular (14 → 18) and Node.js (14 → 18) for RM Australia's flagship
SaaS platform, Assessment Master ([brochure](#)).
- Took ownership of Angular development, introducing modular architecture, improved component
reuse, and best practices to boost maintainability, scalability, and performance.

Algorithm Design - ICILS Machine Marking:
- Developed a recursive algorithm for Blockly ([Blockly Games](#)) machine marking in the ICILS([ICILS](#)).
- Took ownership of Angular development, introducing modular architecture, improved component reuse, and best practices to boost maintainability, scalability, and performance.

Lead D3.js Data Visualization Upgrade:
- Led the migration of the D3.js visualization library from v4 to v7.9, improving rendering performance, scalability, and interactive data visualization features for Assessment Master.

Test-Driven Development (TDD) Leadership:
- Championed the design and implementation of TDD practices, establishing code standards and workflows that enhanced code quality, and improved maintainability across the team.

Skills & Technologies: C#, .NET Core, Node.js, Angular, PHP, TypeScript, Algorithm Design, AngularJS, Test-Driven Development (TDD), PostgreSQL, SQL Server, Back-end API Development, Serverless, MVC, Vanilla JavaScript, jQuery, CSS/SCSS, Yii, GitLab, GitHub, Azure DevOps, Jira

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Letour Cycles([Link](#))   **Web Developer (Dec 2019 - Oct-2021)**

- E-commerce Development: Designed, developed, and deployed Shopify-based online stores, enhancing user experience and functionality.
- API Integration: Maintained seamless API communication for order processing, such as submitting orders to AusPost, syncing orders across platforms like eBay, Shopify, and Neto, and integrating wholesale partners by mapping their orders to our system for efficient processing.
- SEO Optimization: Created product pages with SEO features, including dynamic metadata injection to improve search visibility.
- Product Page Development: Built and maintained product pages using Neto E-commerce and Shopify platforms.
- Data Monitoring: Monitored and ensured smooth data exchange for orders and tracking information across multiple platforms.
Key Achievements:
Built wholesale integration:

- During COVID, as the company initiated wholesale operations from 0 to 1, I built a system to integrate partner orders into the Neto platform.

Skills & Technologies: CSS, Web Scraper, JavaScript, CSS, Google Ads/Analytics, Third-Party API Integration,SEO, Responsive Design,Accessibility Standards (WCAG)

Australian Trading Bridge(Link)   <mark>**Full Stack Developer (Jan 2018 - Dec 2019)**</mark>

- Product Management System Development: Developed a printing product management system and E-commerce website using Laravel 5.
- Model and UI Development: Configured Laravel Eloquent models, built PHP Blade views, and used Bootstrap for front-end UI design.
- Database Migration: Designed and implemented Laravel database migrations with MySQL.
- Feature Enhancement: Developed new features to meet sales team requirements, ensuring the system aligns with business needs.
- System Optimization: Optimized performance by resolving N+1 query issues and implemented custom middleware to support new features.

Skills & Technologies: Laravel, HTML, CSS, MySQL, LAMP Development,Git & GitHub,AWS-EC2, Docker, Agile/Scrum methodologies

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FHL Group   <mark>**IT support (2016 - 2018)**</mark>

- API Management: Managed APIs for different websites integrated with the PHP-based e-commerce system.
- Web Development: Added new features to the website, such as a Christmas Sale template and payment methods.
- SEO Optimization: Created new product listings with SEO features, including metadata injection with keywords.
- API Communication: Maintained seamless API communication between the company and carriers.

Skills & Technologies: CSS, HTML, JavaScript, SEO,API Testing & Debugging,Third-Party API Integration

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Education
Bachelor of Computing (With Honours) <mark>**University of Tasmania (Feb 2011-Aug 2014)**</mark>

- **Graduate Project:** Develop a showcase website for the Career Hub of UTAS for future students (HTML+CSS, jQuery, Content Management System);
- **Honours Research Thesis Project:** Using Hopfield Network to Understand Alzheimer's Disease (Artificial Intelligence, Artificial Neural Network, Neural Science, MATLAB, Statistics);

Achievement: 100% for 2 major assignments and tutorial work for KXT309 Advanced Dynamic Web Development (LAMP and Javascript/jQuery full-stack project).

Reference
References' Contact Information Available Upon Request.