





# Kawai Wong

## Full Stack Developer

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The online version is available at

<https://fancycoconut.github.io/cv>

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## Skills

### Technical Skills

- Microsoft stack: C#, ASP.NET & ASP.NET Core, Web API, MVC, WebForms, Windows Forms, WPF, EntityFramework, SpecFlow
- Modern Web stack: JavaScript, TypeScript, NodeJS, jQuery, React, Redux, Angular, HTML5, CSS3, WebPack, SASS/LESS, Bootstrap
- Infrastructure: SQL Server, CosmosDB, MongoDB, RabbitMQ, Azure DevOps CI/CD, Visual Studio project templates, Docker, Kubernetes
- Other: PHP, Python, Visual Basic, Swift, Protobuf, CoAP
- Experienced in web development & integration using industry standard technologies and frameworks
- Experienced with all stages of the Software Development Life cycle and agile methodologies
- Experienced and knowledge of best practices for software design and architecture

### Leadership Skills

- Lead developer for multiple microservices and other supporting IoT infrastructure at FPH
- Proactive in taking up responsibilities within my expertise and knowledge area
- Initiating proof of concepts and side projects to improve existing processes
- Worked as a lead developer on large enterprise projects on multiple occasions at ASB Bank
- Involved with project design workshops and meetings as a subject matter expert at ASB Bank

### Interpersonal and Communication Skills

- Client facing skills gained as a consultant
- Excellent verbal and written communication skills
- Confident in delivering business or team presentations
- Experienced in writing detailed specifications and various forms of documentation
- Fluent in English, Cantonese and Mandarin

### Analytical and Problem-Solving Skills

- Able to break complicated business rules into simple or elegant solutions
- Able to translate business requirements into system functionality
- Estimate work and come up with best solution proposals
- Able to troubleshoot complex issues and unfamiliar technologies

### Learning Skills

- Adapting very quickly to various working environments
- Build up relevant domain knowledge in a short time frame
- Confident in learning and picking up new technology stacks and frameworks
- Work on side projects in free time

## Professional Experience

### Pushpay

#### Senior Software Development Engineer

Dec 2021 — Current

Client facing APIs & external integrations Building new features and maintaining client facing APIs and external integrations

- Shipping and monitoring via ChatOps

- Creating run-books for setting up environments and troubleshooting issues
- Involved with support for customer issues, backlog tickets, production issues and maintenance

C# NET Core ASP.NET Web API Typescript React GraphQL Postgres AWS Terraform

## Fisher & Paykel Healthcare

### Senior Software Engineer

May 2021 — Nov 2021

In the IoT team building supporting IoT infrastructure and APIs

- Involved with and contributed towards the design of future system architecture and strategy
- Involved with upgrading and dockerization of existing API service components
- Working with Operations to establish the containerization strategy for the use of Docker and Kubernetes within the team
- Setting up CI/CD pipelines and templates for migrating to Azure DevOps
- Mentor junior members on best practices of software design and architecture
- Involved with interviewing for recruitment such as Developers and Solutions Architect roles
- Collaborating with firmware teams to solve problems in the IoT domain for medical devices

### Solutions Developer

January 2018 — April 2021

- Develop and contribute towards system Platform libraries
- Rapidly prototyped new concepts and ideas
- Involved with the delivery of customer integration projects that allows our clients to access our patient management APIs
- Developed a parser for the CoAP protocol for both UDP and TCP variants for NET
- Co-developed a gateway for IoT devices that integrates with the in-house communications protocol
- Co-developed various infrastructure Web APIs
- Co-developed a dynamic serializer/deserializer library for Protobuf
- Involved with project delivery and coordination for the corporate website that required dealing with various stakeholders from Marketing Operations as well as a remote developer
- Developed a custom module for the Kentico CMS used for bundling and packaging content for mobile apps
- Setup CI/CD pipelines for different projects on TFS on-prem
- Set up automated testing infrastructure such as SpecFlow and various other tooling such as project templates and test harnesses
- Developed new features for a world class Obstructive Sleep Apnea patient management and monitoring cloud based solution
- Involved with the development and distribution of educational mobile apps for training purposes using React Native
- Rewrote the existing user registration process for the SleepStyle iOS app to migrate from Objective-C to Swift and Storyboard
- Involved with knowledge sharing of domain and system architecture to team members
- Experienced with design controls for medical devices

C# NET Core ASP.NET Web API ASP.NET Web Forms SQL Server CosmosDB Dapper AutoMapper Windsor Castle  
EntityFramework Identity Server SpecFlow Infrastructure Docker Azure Event Hub RabbitMQ Redis Azure DevOps CI/CD  
Swift Objective-C React Native Protobuf CoAP Design Controls ISO27001

## Datacom

### Software Developer (ASB Bank)

February 2015 — December 2017

Assigned as a Software Developer to work on ASB Bank's CRM system in the domain of home loan origination and customer onboarding

- Designed and developed REST microservices for various CRM domains
- Led the development and design of an automated test strategy for the CRM team
- Designed and developed new components that added new functionality to the CRM
- Involved as a lead developer and subject matter expert in large projects on multiple occasions to provide guidance and technical support

- Delivered various compliance projects that are required by the Reserve Bank's legislative changes on time
- Involved with a large-scale enterprise upgrade project for ASB's CRM system
- Experienced working with enterprise HOST systems
- Worked on business-as-usual enhancements and bugfixes for Onyx

C# NET Core ASP.NET Web API ASP.NET Web Forms SQL Server WCF SpecFlow Onyx CRM Octopus Deploy  
Integration

## ACIT

### Junior Developer

November 2012 — November 2014

Developed and maintained customized business workflow management solutions and maternity management software for midwives.

- Researched and developed an antenatal growth chart generator to integrate with the existing maternity management software
- Built user interfaces for workflow management solutions and introduced a windows metro style design to new projects
- Designed and developed reports for various workflow management systems
- Develop and maintain customized workflow management software for various small to medium businesses
- Performed data migration exercises when integrating or migrating from legacy systems
- Worked with clients to troubleshoot and diagnose issues

C# ASP.NET MVC ASP.NET Web Forms SQL Server WPF Windows Forms SQL Server Reporting Services HTML5  
JavaScript CSS jQuery angularJS Visual Basic

## Hansen Technologies

### Student Intern

March 2013 — October 2013

Worked as an intern doing a final year project to come up with a Business Intelligence solution using OLAP for Utility, Telecom and Pay TV clients.

- Performed feasibility studies and investigations on various solutions such as Oracle OLAP, Pentaho Mondrian, Palo
- Researched various OLAP implementations: MOLAP, ROLAP and HOLAP
- Performed ETL based on sample data sets from Hansen's CISs (Customer Information System)
- Developed a proof of concept solution consists of pivot tables, reports and dashboards

OLAP ETL Data Warehousing Data Visualization Java MySQL

## Education

### The University of Auckland (July 2011 - 2014)

Bachelor of Commerce (Information Systems and Management)

## Certifications

### Microsoft Certified Professional (May 2016 - Current)

Microsoft Specialist: Exam 70-480 Programming in HTML5 with JavaScript and CSS

## Interests

Technology Music Books Sports & Fitness Business Finance

## Referees

Available upon request.