

# Kawai Wong

## Senior Software Engineer

Last update: April 4, 2025

The online version is available at

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

### Residence

[🏠 Auckland, New Zealand](#)

### LinkedIn

[in kawaiw](#)

### GitHub

[🐙 fancycoconut](#)

### Email

[✉ kawai.wong@outlook.co.nz](mailto:kawai.wong@outlook.co.nz)

## Skills

### Technical Skills

- Backend: C#, .NET, ASP.NET, Web API, MVC
- Frontend: JavaScript, TypeScript, NodeJS, React, HTML, CSS
- Infrastructure: Azure, AWS, SQL Server, Postgres, CosmosDB, DynamoDB, RabbitMQ, Docker, Kubernetes, CI/CD Pipelines
- Other: Python, Terraform, Pulumi, GraphQL, Protobuf, CoAP

### Soft Skills

- Leadership & feature leading
- Can-do attitude
- Analytical & problem solving
- Adaptability and learning

## Professional Experience

### Pushpay

#### Senior Software Development Engineer

Dec 2021 — Current

Member of a high performing team responsible for Public APIs and integrations with the Pushpay Giving platform

- Feature lead Pushpay's next generation Public API platform which involves building new and migrating existing API endpoints as well as various supporting infrastructure
- Co-develop a brand new authorization server for securing Public API endpoints
- Built a new Authorization server that supports code and client credentials flow using the OAuth 2.0 protocol
- Involved with the adoption of Open Telemetry for microservices and lambda functions
- Worked on migrating integration functionality from a monolith to dedicated microservices to speedup development time and improve system resilience
- Implement and enhance integrations to synchronize payments, transactions and community members with external systems via vendor APIs
- Taking ownership in supporting engineering experience through docker containers and various other tooling/scripts

C# NET Core ASP.NET Web API Typescript React GraphQL Postgres DynamoDB Lambda ECS S3 AWS Terraform  
Docker Localstack OAuth 2.0 Auth0 Duende

### Fisher & Paykel Healthcare

#### Senior Software Engineer

May 2021 — Nov 2021

Member of the IoT team building supporting IoT infrastructure and microservices

- Involved with and contributed towards the design of future system architecture and strategy
- Involved with dockerization of existing API microservices
- 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
- Collaborating with firmware teams to solve problems in the IoT domain for medical devices

#### Solutions Developer

January 2018 — April 2021

- Build and maintain Platform libraries and tooling that improve engineering experience

- Developed a parser for the CoAP protocol for both UDP and TCP variants for NET
- Help implement the in-house communications protocol to interface with IoT devices over cellular network
- Co-developed and designed various microservices to enable a next generation over-the-air solution
- Co-developed a dynamic serializer/deserializer library for Protobuf
- Involved with the development and distribution of educational mobile apps for training purposes using React Native
- Rewrote the user registration process for the SleepStyle iOS app from Objective-C to Swift
- 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   Docker   Kubernetes   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 the CRM domain
- Built proof of concept for testing automation using Specflow for the CRM team
- Involved as a lead developer and subject matter expert in multiple large projects to provide guidance and technical support
- Delivered various critical 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

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

## Education

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

Bachelor of Commerce (Information Systems and Management)

## Interests

Technology   Music   Reading   Sports & Fitness   Business   Finance

## Referees

Available upon request.