Kawai Wong

Full Stack Senior Developer

Last update: April 4, 2025

The online version is available at

 https://fancycoconut.github.io/cv

Residence

 Auckland, New Zealand

LinkedIn

 kawaiw

GitHub

 fancycoconut

Email

 kawai.wong@outlook.co.nz

Skills

Technical Skills

- Microsoft stack: C#, ASP.NET Core, Web API, MVC, EntityFramework
- Modern Web stack: JavaScript, TypeScript, NodeJS, jQuery, React, Redux, Angular, HTML5, CSS3, WebPack, SASS/LESS, Bootstrap
- Infrastructure: Azure, AWS, SQL Server, CosmosDB, DynamoDB, RabbitMQ, Docker, Kubernetes
- Other: Python, 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 & Pushpay
- 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

Member of a high performing team that looks after APIs and external integrations for the Pushpay Giving platform

- Feature lead Pushpay's next generation Web API platform
- Involved with migration to microservices from a Monolith

- Implement payment transaction syncing with external systems via vendor APIs
- Taking ownership in supporting engineering experience through docker containers and other tooling/scripts
- Involved with interviewing for recruitment
- Involved with incident response, management and investigation

`C#` `NET Core` `ASP.NET Web API` `Typescript` `React` `GraphQl` `Postgres` `DynamoDB` `AWS` `Terraform` `Docker`

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 occassions 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

Education

The University of Auckland (July 2011 - 2014)

Bachelor of Commerce (Information Systems and Management)

Interests

Technology | Music | Books | Sports & Fitness | Business | Finance

Referees

Available upon request.