


# PETER KWAN

## Software Developer

### contact

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Hong Kong 

[LinkedIn](#) 

[GitHub](#) 

### education

#### McGill University

2009 - 2014

Bachelor of Arts

Economics

### skills

TypeScript / JavaScript

Python

C#

HTML / CSS / SCSS

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React

Next.js

Gatsby

React Router

React Query

Angular

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styled-components

Material UI

Bootstrap

Tailwind CSS

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Storybook

Figma

Canva

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ArgoCD

### summary

Ex-financial professional turned software developer with 4 years of programming experience. Familiar with tools such as React, TypeScript, and Material UI.

### work experience

#### Software Engineer

##### **Willis Towers Watson**

Nov 2022 - Present | Permanent | Hong Kong

- Successfully modernized a multi-million app legacy codebase (Career Navigator) from Gatsby v2 to Next.js v13. App was rewritten in TypeScript from JavaScript. This resulted in an improved developer experience, which included faster dev environment load times, ESLint formatting, type safety, and dependency upgrades to latest versions
- Led the integration of a headless CMS solution into the Career Navigator app. Roadmap included sourcing details from 8+ CMS providers, integrating APIs from the CMS solutions, setting up CI/CD preview environments for our team to test various CMS providers, and ultimately pitching Sanity as the preferred option
- Migrated Material UI v4 to v5 in Career Navigator app, refactoring over 3000 lines of code with respect to breaking changes and resolved 20+ legacy bugs
- Tech stack: React v18, Next.js, TypeScript, Gatsby, Material UI v5, styled-components, Sanity (CMS), GROQ

#### Coding Instructor

##### **Preface**

Jun 2022 - current | Freelance | Hong Kong

- Teaching full stack development & Data Science w/ Python

#### Frontend Developer

##### **BCW Group**

Jul 2022 - Oct 2022 | Permanent | Hong Kong

- Led the development of the frontend code base for the Arkhia platform
- Mentor to a junior frontend developer
- Successfully integrated Stripe payment using Stripe API React Elements into the frontend code base, solving the critical business use case of accepting payments from clients
- Developed a cost estimator for clients to estimate their usage cost for metered billing
- Implemented commit-lint and Husky git hooks for source control standardization

Git / SourceTree

GitHub Actions

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Netlify

Heroku CLI

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SQL

MongoDB / mongoose

Swagger

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Jira

MS Power Automate

Docusaurus

npm

Yarn

Vite

- Wrote the entire Arkhia frontend GitHub repo wiki, detailing best practices for commits, folder structure, branch naming, and styling
- Developed backend endpoints using REST API with Node and Express
- Tech stack: *React v17, Vite, TypeScript, JavaScript, Material UI v5, React Query v3, React Router v6, Swagger, Jira, SourceTree*

## Software Engineer

### **Serai** by HSBC

Oct 2021 - Jul 2022 | Permanent | Hong Kong

- Developed features, code review and pair-programming
- Led the SCS navigation revamp from top-navbar to sidebar, which improved responsiveness across viewports and UX
- Led the supply chain map overhaul
- Built components in Storybook to align with UX Design System
- Tech stack: *React v16, Next.js, TypeScript, ArgoCD, Material UI v4, React Query v3, React Router v5, styled-components*

## Software Developer

### **PAG** via FDM

May 2020 - Oct 2021 | Contract | Hong Kong

- Refactored a single-file C# 4000+ line vendor app into a scalable format. Resolved 10+ legacy bugs and increased performance by 95%, resulting in efficient extendibility
- Tech stack: *SPFx, React v16, TypeScript, PostgreSQL, Material UI v4*

## Software Developer

### **Manulife** via FDM

Aug 2019 - May 2020 | Contract | Hong Kong

- Worked with UI/UX team to revamp the old Manulife HK website from JSP (written in Java) to Angular
- Tech stack: *Angular 8, Sass, Material Angular, Bootstrap 4, Jenkins*

## Relationship Manager

### **Acuris**

Mar 2016 - May 2019 | Permanent | Hong Kong

- Training manager to 3 new joiners of the RM team

## Operations Analyst

### **Coleman Research**

Mar 2015 - Mar 2016 | Permanent | Hong Kong

- Create client / expert relationships; updating in-house database

## Project Assistant

### **Cathay Dragon (formerly Dragonair)**

Jun 2012 - Aug 2012 | Internship | Hong Kong

- Part of the Swire Summer Internship
- Worked closely with the Cathay Pacific IT team to draft initial storyboard and basic functionality for an iPhone app