

# KIN FAI FRANCO CHAN

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## WORK

### 2022 Sep - Current

#### OnTheBeach: Software Developer

- Develop C# backend API and Angular frontend app to facilitate hotel bookings
- Re-implement existing RabbitMQ queuing system with Amazon SQS and API Gateway for improved reliability and dead letter handling
- Re-implement part of a monolithic Ruby on Rails app, into a new C# API to read the underlying MySQL database with Dapper, as part of the domain wide effort to dismantle the monolith
- Implement user authentication (digest access auth) on an external facing API used by hotel suppliers, and store the API requests responses into Amazon S3 to prepare for potential dispute resolution
- Write custom SQL scripts (MSSQL) to perform exceptional requests from contact centre team

### 2019 Jan - 2021 Sep

#### i2i Pipelines: Software Developer

- Developed and maintained MATLAB apps for data team to analyse, visualise data, and automate report creation
- Joined in the R&D process for physical sensors (IMU, odometer and calliper), to derive mathematical formulae for translating raw sensor signals into physical dimensions deliverable to clients
- Optimised the existing data loading MATLAB script to be RAM efficient, which allowed multi-day's worth of inspection data to be loaded without RAM bottleneck issue.
- Provided technical support for data team, and developed software solutions for exceptional requests from clients

### Personal Projects

<https://francochan.co>

### Github Repositories

<https://github.com/iamfranco>

## EDUCATION AND QUALIFICATION

### 2016 - 2018

#### The University of Manchester - MSc (Hons) Applied Mathematics

Final Mark: 86.8% (Distinction)

### 2013 - 2016

#### The University of Manchester - BSc (Hons) Mathematics

Final Mark: 75.1% (First Class)