

# Gabriel Kok

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Portfolio site: [gabrielkok.dev](https://gabrielkok.dev)

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## EDUCATION

National University of Singapore

B.S Industrial System Engineering

July 2020

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, ECMAScript 6, HTML, CSS, Java, Python

**Frameworks and Databases:** React, Next Js, Firebase, NodeJS, MySQL

**Tools:** Git, Jira, Bitbucket, Google Cloud GCP

## WORK EXPERIENCE

**React Developer, Tata Consultancy Services – Singapore Airlines**

Jan 2022 – Present

- Frontend-oriented React developer focused on developing an App to automate and improve the efficiency of Singapore Airlines Cadet Training Program. Primarily worked with JavaScript and React framework.
- Developed and deployed the app which resulted in a 30% reduction in time wasted in manual scenario generation
- Implemented a custom user authentication component to limit user access on certain functions, improving app security
- Designed and built modular React components using React framework, Material UI and Bootstrap Library.
- Collaborated with stakeholders to gather project requirements using Agile and Scrum approach

**Software Developer Trainee, Tata Consultancy Services**

July 2021 – Jan 2022

- Undergone rigorous training programme on Java, DBMS, SQL, UI, Web Services, Spring
- Completed a case study project using Angular JS, Hibernate and Spring

**Census Supervisor, Singapore Department of Statistics**

July 2020 – Dec 2020

- Trained, supervised and led a team of fieldworkers to collect key household data for Population Census 2020, the largest national survey in Singapore
- Achieved total 95% completion rate of C2020 operations in spite of the unprecedented Covid crisis

**Customer Supply Chain Intern, Infineon Technologies APAC**

May 2019 – Aug 2019

- Implemented Excel VBA to conduct data mining on large volumes of forecast order data, identifying trends and specific changes in demand
- Provided recommendation to planners to strategize stock availability and improve delivery performance
- Applied data into Tableau to create dashboards for data analysis

## PROJECTS

**Data Science Project – Singapore HDB Resale Price**

Feb 2021 – May 2021

- Performed data wrangling in Python to produce clean data for analysis
- Performed Exploratory Data Analysis on HDB Resale Prices in Singapore to identify trends and high-level analysis using various packages like Pandas, Matplotlib, Seaborn
- Engineered new features using data from external sources by scripting an API to pull the data
- Built Linear Regression and Random Forest Regression models to predict housing prices based on features and understand each feature importance in contributing to the price.

**System Design Project – Hospital to Community Model**

Aug 2019 – Apr 2020

- Design and develop an automated data visualization dashboard for analysis of patient data for Tan Tock Seng Hospital's "Health to Community" Project
- Incorporated Machine Learning Algorithms such as K Means clustering to identify optimum location to install medicine lockers
- Resulted in reduced repetitive workload for staff and reduced chance of human error, and increased efficiency in identification of disease trends

## CERTIFICATIONS

**Python for Data Science and Machine Learning Bootcamp by Jose Portilla**

May 2021

**Complete SQL Mastery by Mosh Hamedani**

Dec 2020