

# Michael Lee

Software Engineer / Developer

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 Hong Kong

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I am a Software Engineer and Developer from Hong Kong who loves to learn and explore the whole spectrum of web technology from Frontend to Backend, and then to DevOps, even to Game Development.

## Skills

### Frontend / Mobile

React.js

React Native

Flutter

HTML / JS / CSS

### Backend / Database

Golang

Node.js

PHP

C / C++

MySQL

PostgreSQL

Redis

RabbitMQ

### DevOps

Docker

GitLab CI / CD

Kubernetes

### Others

gRPC

Godot Engine

Blender

## Languages

English

Traditional Chinese / Cantonese

Simplified Chinese / Putonghua

## Education and Achievements

- Undergraduate student in University of Hong Kong (HKU) Engineering  
*Sep 2018 - Present*
- Hong Kong Olympiad in Informatics (HKOI) Silver Medal  
*2016/17*

## Work Experience

### Developer

#### HKU e-Learning Development Laboratory

*May 2018 - Present*

- Develop the iClass Parental Control System (PCS) app  
*React Native*
- Further develop and maintain the iClass Mobile Device Management (MDM) and Learning Management System (LMS) service  
*PHP, Golang, Node.js, React.js, MySQL*
- Develop and deploy iClass Student Information System (SIS)  
*PHP, MySQL, Docker, HTML / JS / CSS*

## Highlighted Personal Projects

### BeaconApp

- A mobile app to connect people in the same room, as both a course project and a (failed) fund applying project.
- The backend is written in a highly scalable and modular cloud-native micro-service architecture in three components for different parts of the system.  
*Golang, gRPC, Redis, RabbitMQ*
- The frontend mobile app uses Bluetooth Beacon technology to detect which room is the user currently in.  
*Flutter*
- Currently deployed with Docker Compose with Kubernetes config being developed.  
*Docker, Kubernetes*

### Telegram Bot for Moodle Quiz Monitoring

- A Telegram bot being developed to detect scored online pop quizzes to avoid (boring, uninformative and hated) lectures. Effectively saved me a few hours per week.
- The scanner part is built with Puppeteer which scans the course page frequently and ping the bot when pop quizzes are detected.  
*Golang, gRPC, SSDB (Redis-like on-disk key-value store)*
- The Telegram bot responds to status queries and alert subscribers when a moodle quiz comes.  
*Golang, gRPC*
- Deployed with Docker Compose which allow the scanner service to wake up only on a cron job, saving bandwidth and avoid detection.  
*Docker, cron*

### FlutterBlue Beacon

- A Flutter library created for working with Bluetooth Beacons. Initially built for BeaconApp and later open-sourced.  
*Flutter*

## This resume

- Yes, I am serious. This resume is my challenge to build a responsive and interactive resume using raw HTML / CSS. This resume uses no libraries except Material Icons, Ubuntu font and Normalize. Yet it works progressively on desktop, mobile phones and printers ( tested on Chrome in A4 portrait, none margin ) without a piece of JS.  
*HTML / CSS*
- Please feel free to find an online version of this resume from [michaellee8.github.io](https://michaellee8.github.io), as well as look at my other projects from my GitHub and GitLab profile .