Michael Lee
Software Engineer / Developer

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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` `Python` `C / C++` `Java` `MySQL` `PostgreSQL` `Redis` `RabbitMQ`

DevOps

`Docker` `GitLab CI / CD` `Kubernetes`

Others

`Linux` `gRPC / Protocol Buffers` `Godot Engine`

Languages

`English`

`Traditional Chinese / Cantonese`

`Simplified Chinese / Putonghua`

Education and Achiements

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

Work Experience

Part-time Developer

HKU e-Learning Development Labroatory
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 chat 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 is detected.
  Node.js, gRPC, SSDB (Redis-like on-disk key-value store)
- The Telegram bot reposnds 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, no margin) without a single piece of JavaScript.
  HTML / CSS
- Please feel free to find an online version of this resume from michaellee8.github.io, as well as look at my other projects on my GitHub and GitLab profile .