

# HONGYU, TENG

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## Education

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Imperial College London

2019 – 2023

- Mathematics and Computer Science (MEng)
- Courses: Compiler, Operating System, Concurrency, Graphics, Computer Vision, etc.

## Work Experiences

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### Consumer Health Research and Technology, Google

Software Engineering Intern

London, United Kingdom, May 2022 – Sep 2022

- Under the guidance of host, learning native Android development using Kotlin, building a fully working Wear OS app on my own, with collaboration with UI/UX colleague and domain expert.
- Involving in-device sensor data collection, scheduled and on-demand computation, persistent data storage, a background service (with ongoing notification + activity) for consistent data collection. A digital watch face is also implemented, that would respond to changes of collected and computed data. This is deployed in both Wear OS 2.x and Wear OS 3.
- Deployed internally with evaluation of apps' effectiveness of achieving goals

### Octaface — From Acquaintances to Friends

Co-founder, Tech Team Lead, Full-Stack Developer

Nanjing, China, Jul 2020 – Dec 2021

- Lead tech team to cooperate with design team to implement an iOS/Android app (Flutter), necessary backend (Flask + MongoDB), and integrate 3rd-party services (Image, Push, SMS)
- Developed instant messaging service from scratch, supports direct and group messaging with advanced privilege management; help refactor information flow section and contacts system
- Having 50+ beta users for a year, handling hundreds of messages in 20+ groups per day
- Adopt DevOps practice, deployed MongoDB Shard with daily backups

### Deeplang: A Programming Language for IoT Device

Low-Level Developer

China, Sep 2020 – Jan 2021

- Develop the memory management module for the backend virtual machine in C.

### Algorithm Selection for Classification Problems via Cluster-based Meta-features

First Author

Singapore, Jun 2016 – Nov 2018

- A step towards automatic machine learning (AutoML) by proposing new meta-features
- Published in 2018 IEEE International Conference on Big Data (Big Data)

## Other Experiences

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**Undergrad Teaching Assistant** / Imperial College London    Oct 2020 – Jun 2021

- Teaching Assistant for regular lab sessions, covering Haskell, Java, Kotlin and C.

**Silver Award** / National Olympiad in Informatics, Singapore    Mar 2017, 2018

## Skills Summary

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- Frequently used: C, C++, Python, Flutter, Kotlin, SocketIO; Elixir, Haskell, Java, Golang, Git
- Occasionally used: C#; Flask, SQLite; Celery with RabbitMQ, MongoDB, TornadoFX

References Available on Request