HONGYU, TENG

London, United Kingdom, SW5 9HL

+44 7415 016169 | joey.teng.dev@gmail.com | LinkedIn🔗 | GitHub🔗

Education

Imperial College London   2019 – 2023

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

National Junior College, Singapore   2015 – 2018

Work Experiences

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; currently having about 30 DAU and 60+ MAU, 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

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

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

Academic Lead (Computer Vision Course) / TechX 2019🔗   Jul 2019

- Teaching Assistant in Computer Vision Course; Technical support in Hackathon.

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

Skills Summary

- Advanced Algorithms, Video Processing skills[1]; Teamwork, Leadership, Communication skills
- Frequently used: C, C++, Python, Flutter, SocketIO; Elixir, Haskell, Java, Kotlin, Golang, Git
- Occasionally used: C#; Flask, SQLite; Celery with RabbitMQ, MongoDB, TornadoFX

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[1] Post-processing using VapourSynth, and encoding with x.265 / x.264 / av1

References Available on Request