

ZHENGYU CHEN

◇ Mobile: +44 020 3097 1630 ◇ Email: zintrulcre@gmail.com ◇ [Portfolio](#) ◇ [GitHub](#) ◇ [Linkedin](#)

WORK EXPERIENCE

Amazon - Software Engineer

Beijing, China 2022.02 - Current

- Constructed the hook function for **subscribing data change from AWS AppConfig**. Decoupled services from configurations and **resolved data inconsistency** by migrating data to AWS AppConfig.
- Designed the intermediate service to access **Redis**. Integrated authentication for **AWS** and **on-premise** services. Developed unified interfaces that shorten the duration for onboarding new data types from 8 weeks to 2 weeks.
- Delivered 9+ full CI/CD services base on **AWS Lambda/SQS/S3/CDK** with teammates in Seattle, communicating in English.

Tencent - Software Engineer

Guangdong, China 2020.01 - 2022.02

- Designed monitoring system on **Prometheus/Kubernetes** for 5000+ hosts. Constructed the process for pushing data by batch to **Pushgateway**. Extended Pushgateway to cluster and **resolved single point of failure** issue.
- Constructed the auto-scaling pipeline for pods on **Kubernetes** by training time series models using **LSTM** and predicting the number of online users. Reached 87.31% of accuracy.
- Optimized data structures by replacing frequently allocated memories with **cached data and pointers**. Reduced memory usage by 20%.
- **Mentored interns**, all of who get return offers. Collaborated with PMs/Ops/engineers and delivered 50+ features with no bug.

EDUCATION

The University of Melbourne

Melbourne, Australia 2018.07 - 2019.12

M.S. in Information Technology

East China Normal University

Shanghai, China 2013.09 - 2017.06

B.S. in Software Engineering

PROJECTS

[LeetCode Archiver](#) - Personal Open-source Project

2018.11 - 2019.01

- Designed and implemented the process of **crawling submissions** on LeetCode and storing data in NoSQL databases. Obtained **CSRF token** and maintain the session.
- Gain 200+ stars on GitHub.

[Tech Share Website](#)

2018.12 - Current

- Share technologies including **consistent hashing**, **message queue (Kafka)**, **Python virtual machine and coroutine**, etc.

SKILLS

- [AWS Certified Solution Architect - Associate](#) Validation Number: R76Y7TE2TEE4QDCF
- Tools: Linux Compiling, Debugging & Perf (Clang, GDB, Valgrind)
- Programming Languages: C++/Java/Python (Experienced), TypeScript(Comfortable)
- Languages: English (Professional), Mandarin (Native)