

ZHENGYU CHEN

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WORK EXPERIENCE

Amazon

2022.02 - Current

SDE, Retail business with Java/Gradle/TypeScript/Redis/AWS/Git

Beijing, China

- Do project design and development. Integrate services with AWS products, e.g. SQS, Lambda, DDB, S3.
- Design middle-ware service to 1.access Redis; 2.unify authentication for Native AWS and other services; 3.shorten the duration for onboarding new data types by 3/4.
- Migrate configurations from Java Packages to AWS AppConfig. Maintain listening and updating methods.

Tencent

2020.01 - 2022.02

SDE, game development with C++/Clang/Linux/MySQL/K8S/Docker/C#/Unity/SVN

Shenzhen, China

- Develop stable code. Implement guild rental agency independently.
- Optimize matching algorithm based on ELO and multiple matching pools.
- Adjust AI player allocation ratio dynamically with composite function and reinforcement learning.
- Apply RNN and LSTM on predicting PCU. Scale hosts automatically with prediction data stream.
- Build monitoring system on Prometheus. Design data pushing process in sub-thread for Pushgateway.
- Do regular tech share, e.g. heuristic search, Python virtual machine, coroutine, Kafka, etc.

EDUCATION

The University of Melbourne

Melbourne, Australia 2018.07 - 2019.12

M.S. in Information Technology (Artificial Intelligence)

East China Normal University

Shanghai, China 2013.09 - 2017.06

B.S. in Software Engineering

PROJECTS

[LeetCode Archiver](#)

2018.11 - 2019.01

Personal open source project with Python/Scrapy/Requests/MongoDB/Postman/HTTP

- Crawl submissions on LeetCode. Obtain csrf token and maintain session.
- Gain 200+ stars on Github.

Australian Snake Breed Identification

2018.12 - 2019.06

Target detection and image recognition models with CNN/YOLOv3/iOS/Swift/CoreML

- Develop iOS applications with DispatchQueue to capture images asynchronously.
- Apply CNN model in real-time with 76.29% accuracy.

SKILLS

- [AWS Certified Solution Architect - Associate](#) Validation Number: R76Y7TE2TEE4QDCF
- Programming Languages: C++ (Experienced), Java/Python/Go (Comfortable)
- Languages: English (Professional), Mandarin (Native)