ZHENGYU CHEN

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WORK EXPERIENCE

Amazon 2022.02 - Current
SDE, Retail business with Java/Gradle/TypeScript/Redis/AWS/Git *Beijing, China*

- Design middle-ware service to 1. access Redis; 2. unify authentication for Native AWS and other services; 3. shorten the duration for on-boarding 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/SVN *Shenzhen, China*

- Design and implement various lottery activities and guild rental agency system.
- 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.

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 (Confortable)
- Languages: English (Professional), Mandarin (Native)