

ZHENGYU CHEN

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EDUCATION BACKGROUND

The University of Melbourne	<i>Melbourne, Australia</i>	<i>2018.07 - 2019.12</i>
Master of Information Technology	Artificial Intelligence	
East China Normal University	<i>Shanghai, China</i>	<i>2013.09 - 2017.06</i>
Bachelor of Software Engineering		

WORK EXPERIENCE

Amazon	<i>2022.02 - Current</i>
Software Development Engineer	<i>Beijing, China</i>
<ul style="list-style-type: none">• Design and implement a middleware service for accessing Redis, and to unify the authentication of Native AWS and normal services; Shorten the duration of onboarding new data types by 3/4• Migrate Global Shipping Configurations from Java Packages to AWS AppConfig; Maintain and optimize methods for listening and updating configurations on AWS AppConfig	
Tencent	<i>2020.01 - 2022.02</i>
Backend Engineer	<i>Shenzhen, China</i>
<ul style="list-style-type: none">• Building monitoring system based on Prometheus; designing the process of pushing data to the Pushgateway in subthread;• Collect data from production environment, filter data and perform variable correlation analysis, use RNN and LSTM to train time series model, predict trend of online users, and apply to the auto scaling of hosts• Analysis requirements and develop stable code in game; Implement guild rental agency system in game; Design the scheme that dynamically adjusts the AI allocation ratio according to the different play modes; Optimize the matching algorithm based on ELO and multiple matching pools.• Share technology regularly, topics including heuristic search and reinforcement learning, Python virtual machine and coroutine implementation, Kafka source code, etc.	

PROJECT

LeetCode Archiver	<i>2018.11 - 2019.01</i>
<ul style="list-style-type: none">• Crawl topic and submissions based on Scrapy framework and Requests library; use MongoDB to store data; Use Postman to parse HTTP requests to obtain csrf token and maintain session• Gain 200+ stars on Github	
Australian Snake Breed Identification	<i>2018.11 - 2019.01</i>
<ul style="list-style-type: none">• Implement target detection and image recognition models based on YOLOv3. Using multiple transfer learning models and ensemble learning to improve the accuracy to 76.29• Use Swift CoreML lib to develop iOS applications; Use DispatchQueue to implement asynchronous image acquisition	

SKILLS

- [AWS Certified Solution Architect - Associate](#)
Validation Number: R76Y7TE2TEE4QDCF
- Languages: Chines (Native), English (Skillful)