Yi Lyu

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EDUCATION	Shanghai Jiao Tong University, Shanghai, China				
	 Major in Information Engineering (GPA:87.5/100, last year: 91.68/100) 	p 2017 – Jun 2021			
	■ Major in Zhiyuan Honors Track (170 /~3600)	p 2017 – Jun 2021			
PROFESSIONAL AFFILIATIONS	Microsoft: Summer Intern in Azure Storage	2020.7 –2020.10			
	 Azurite, open source project with more than 600 stars I was mainly responsible for building the table service for the Azure Storage local simulator — Azurite. It is a open source project of Microsoft organization and receives by now more than 600 stars on GitHub. 				
	Google: Software Product Sprint summer project	2020.7–2020.8			
	 We built a cross platform application based on Flutter and django framework ca implementing major functions of instagram under supervision of Googler. 	alled Graminstra , link			
	Google: Summer Intern in Advertisement Team	2019.7 -2019.9			
	• I built a highly distributed and parallel pipeline to process high volume of data to coordinate the data inconsistency. I adopted java as main language and used Flumejava, F1 database and Streamz to complete this job.				
	■ It can process 1.4 billion google account data within 20 minutes.				
RESEARCH EXPERIENCE	 Research Assistant, supervised by Professor Haiming Jin I was working on using reinforcement learning to configure database's knobs to get bet to the huge search space of the knobs, we first pick out most important knobs after a internal metrics. Then We use reinforcement learning to find suitable knob values. Finew workload's feature vector with pre-trained workload's feature vector to recommend 	analyzing database inally we compare			
PROJECTS	 JOS, An OS kernel from scratch I build an OS kernel based on scratch codes from MIT 6.828 courses, from bootload of user process, which includes more than 10,000 lines of codes. I got the highest score in my class of course Operating System Course Design with 9. Go Interpreter I built an interpreter in go, which is capable of calculations, variable bindings, application of those functions, conditionals, return statements KeyValue Store based on LSM tree I built a KeyValue store system based on LSM tree, according to the design of write-ahead-log for data durability. To further improve the efficiency, I used bloom the process of looking up keyvalue in each SSTable. 	9. link functions and the link LevelDB. I added			
TEACHING EXPERIENCE	Teaching Assistant, Shanghai Jiaotong University ■ Assist Prof Qianni Deng ■ SJTU CS359 Computer Organization and Architecture	ep 2019-May 2020			
AWARDS & SCHOLARSHIPS	 Zhiyuan College Honors Scholarship (CN ¥5000, Top5%) Zhiyuan College Excellent Scholarship Meritorious Winner Mathematical Contest in Modeling, top 7% out of 25,000 team 	2017 2018 s 2019			
CORE COURSES	 C++ Programming (A), Data Structure (A), Algorithm Design (A+) Operating System Design (A+), Databases (A), Computer Network (A) Data Visualization System (A+), AI Interaction Technology (A+) Wireless Network (A+), Big Data Mining (A), Machine Learning (A) 				

SKILLS

• **Programming Language**: C/C++, Java, Javascript, Typescript, Golang, Python, HTML, MySql

• Software and framework: Flutter, Django, Tensorflow, Keras, MATLAB, LaTex, CSS