Wenjie YANG

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EDUCATION

2017.Sep - 2018.Dec	CARNEGIE MELLON UNIVERSITY, INI	**Pittsburgh, PA**
	M.S. in Information Technology, Mobility GPA: 4.0/4.0	
	Courses: ICS, Database System, Storage System, Computer Networks	
2013.Sep - 2017.June	SHANGHAI JIAO TONG UNIVERSITY	**Shanghai, CHINA**
	B.S. in Computer Science GPA: 87.2/100(overall), 89.8/100(major)	
	Awards: National Olympiad Informatics in Jiangsu Province 1st Prize 2010	

EXPERIENCE

2017.FEB - 2017.JUN	**Pygmal Technology**	**Shanghai, CHINA**
	Software Development Engineer Internship, C++, DX11	
	Built a VR 3D modeling software on HTC Vive/Oculus Rift, allowing users to create VR 3D models	
	Evaluated computer graphics algorithms like Shadow Mapping, View frustum culling's performance	
2016.Nov - 2017.Jan	**Yitu Technology**	**Shanghai, CHINA**
	Software Development Engineer Internship, C++, Kafka	
	Developed a message queue system based on Kafka for large scale face-recognition system	
2016.Jul - 2016.Sep	**Tencent Technology**	**Shenzhen, CHINA**
	C++ Back-End Engineer Internship, C++	
	Built a large-scale digital distribution platform, especially focus on server of the social system	
2016.Feb - 2016.May	**PRIME Lab, HKUST**	**Hong Kong, CHINA**
	Research Assistant **Director: Charles Zhang**, C++, LLVM	
	Built a pointer analysis tool for C/C++ programs powered by LLVM, to find C/C++ bugs before running	
	Implemented inter-function pointer analysis by Z3 solver to find bugs caused by parameter passing	

PROJECTS

2016.SEP - 2017.JAN	*TiKV database*
	RUST, DISTRIBUTED KV DATABASE, 2000 STARS ON GITHUB
	Improved the Raft Consensus algorithm by adding pre-elect algorithm inspired by ZooKeeper
	Implemented development tools for Multi-Version Concurrency Control(MVCC) Key-Value scanning
2016.Apr - 2016.Sep	*Servo Browser Engine*
	RUST, BROWSER ENGINE, 9000 STARS ON GITHUB
	Improved the protocols used for Firefox developer tools, like redirecting requests
	Improved tidy checkers in style checkers, keeping the project's code style automatically
2015.Mar - 2015.Jun	*YOS Kernel from scratch*
	C++/ASM, A TINY OPERATING SYSTEM KERNEL
	Experience with bare metal programming; Support preemptive scheduler with Round-Robin algorithm; Create symmetric multiprocessing system; Implemented file system through IPC
2016.Jan - 2016.Feb	*SimpleDB DBMS*
	JAVA, A RELATIONAL DATABASE FROM SCRATCH
	Designed a lock-based transaction system, by implementing a dead-lock detection algorithm
	Implemented a log-based rollback system and log-based crash recovery
2016.Jul - 2016.Aug	*OAT Language Compiler*
	OCAML, JAVA-LIKE OOP LANGUAGE COMPILER
	Implemented a LLVM like runtime system, which is the language compiled to
	Designed a static analysis framework to support optimization like sub-expression elimination

SKILLS

PROGRAMMING LANGUAGES	Proficient:C/C++/Python/Rust/Scala, Intermediate: Java/Golang
PLATFORMS & TOOLS	Linux, *NIX, AWS, Hadoop, Spark, LevelDB, Kafka, MapReduce, MySQL