Wenjie YANG

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EDUCATION

2017 - 2019	CARNEGIE MELLON UNIVERSITY	**Pittsburgh, PA**
	M.S. in Information Technology	
2013 - 2017	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

Shanghai, CHINA | **Pygmal Technology** 2017.2 - 2017.6
Software Development Engineer Internship
Built a VR-based architecture editor on HTC Vive/ Oculus Rift
Evaluated computer graphics algorithms like Shadow Mapping, View frustum culling's behavior

Shanghai, CHINA | **Yitu Technology** 2016.11 - 2016.12
Software Development Engineer Internship
Developed a message queue system based on Kafka for large scale face-recognition system

Shenzhen, CHINA | **Tencent Technology** 2016.7 - 2016.9
C++ Back-End Engineer Internship
Built a large-scale digital distribution platform, especially focus on server of the social system

Hong Kong, CHINA | **PRIME Lab, HKUST** 2016.2 - 2016.5
Research Assistant **Director: Charles Zhang**
Built a pointer analysis tool for C/C++ programs powered by LLVM
Implemented inter-function pointer analysis by Z3 solver to find bugs caused by parameter passing

PROJECTS

2016.SEP - 2017.JAN | *TiKV database*
RUST, OPEN SOURCE PROJECT
Improved the Raft Consensus algorithm for the distributed Key-Value database
Implemented development tools for Multi-Version Concurrency Control(MVCC) Key-Value scanning

2015.MAR - 2015.JUN | *YOS Kernel from scratch*
A tiny operating system kernel
Experience with bare metal programming; Support preemptive scheduler with Round-Robin algorithm; Create symmetirc multiprocessing system

2016.APR - 2016.SEP | *Servo Browser Engine*
RUST, OPEN SOURCE PROJECT
Improved the protocols used for Firefox developer tools, like redirecting requests
Improvde the tidy checker in style checkers for the project.

2016.JAN - 2016.FEB | *SimpleDB DBMS*
Support for various query processing operators, as well as transactions, locking, and concurrent queries

2016.JUL - 2016.AUG | *OAT Language Compiler*
OCAML, INDIVIDUAL PROJECT
A Java-like language powered by LLVMLite IR, which is a subset of LLVM
Designed a static analysis framework to support analysis and optimization

SKILLS

PROGRAMMING LANGUAGES	Advanced:C/Python/Rust/Scala, Immediate: Haskell/C++/Java
PLATFORMS & TOOLS	Linux, MacOS, Emacs; Hadoop, Spark, LevelDB, Kafka, MapReduce