

# Wenjie YANG

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## EDUCATION

2017 - 2019	CARNEGIE MELLON UNIVERSITY <i>M.S. in Information Technology</i>	Pittsburgh, PA, USA
2013 - 2017	SHANGHAI JIAO TONG UNIVERSITY <i>B.S. in Computer Science</i>	Shanghai, CHINA

## EXPERIENCE

Shanghai, CHINA	<b>Pygmal Technology</b> <i>Software Development Engineer</i> Build a VR-based architecture editor and evaluate computer graphic algorithm behaviors on HTC Vive/ Oculus Rift	2017.2 - 2017.6
Shanghai, CHINA	<b>Yitu Technology</b> <i>Software Development Engineer</i> Develop a message queue system based on Kafka for large scale face-recognition system. Build a file system abstraction for all storage systems to reply on	2016.11 - 2016.12
Shenzhen, CHINA	<b>Tencent Technology</b> <i>C++ Back-End Engineer</i> Build a large-scale digital distribution platform, especially focus on server of the social system.	2016.7 - 2016.9
Hong Kong, CHINA	<b>PRIME Lab</b> <i>Research Assistant</i> <b>Director: Charles Zhang</b> Build a pointer analysis tool for C/C++ programs powered by LLVM; Develop inter-function pointer analysis using Z3 solver.	2016.2 - 2016.5

## PROJECTS

2017.FEB - 2017.JUN	<b>Hephaestus, a VR-based architecture editor</b> C++, DIRECTX11, COMPUTER GRAPHICS Build a VR application for architecture exploring and editing Evaluate computer graphics algorithms like Shadow Mapping, View frustum culling's behavior
2016.SEP - 2017.JAN	<b>TiKV database</b> RUST, OPEN SOURCE PROJECT Improve the Raft Consensus algorithm for the distributed Key-Value database Implement development tools for Multi-Version Concurrency Control(MVCC) Key-Value scanning.
2016.APR - 2016.SEP	<b>Servo Browser Engine</b> RUST, OPEN SOURCE PROJECT Improve the protocols used for Firefox developer tools, like redirecting requests. Improve the tidy checker in style checkers for the project.
2016.JAN - 2016.FEB	<b>SimpleDB DBMS</b> Support for various query processing operators, as well as transactions, locking, and concurrent queries.
2016.JUL - 2016.AUG	<b>OAT Language Compiler</b> OCAML, INDIVIDUAL PROJECT A Java-like language powered by LLVM Lite IR, which is a subset of LLVM Design a static analysis framework to support analysis and optimization.
2015.MAR - 2015.JUN	<b>YOS Kernel from scratch</b> A tiny operating system kernel. Experience with bare metal programming; Support preemptive scheduler with Round-Robin algorithm; Create symmetric multiprocessing system

## SKILLS

PROGRAMMING LANGUAGES    Advanced:C/Python/Rust/Scala, Immediate: Haskell/C++/Java