Kangping Dong

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Education

2015–2018 **MS in Network and Service computing, Supervisor: Linpeng Huang**, *Computer Science, Shanghai Jiao Tong University*.

2011–2015 **BA in Micro Electronic**, *Electronic Engineering, Huazhong University of Science and Technology*.

Work Experience

2018 **Alibaba**, *Distributed Database*.

As a member of Alibaba's database team that supports business from *Taobao* to *Tmall*, I was engaged in distributed consensus protocol and RPC framework. My first work was to implement our RPC protocol atop of RDMA network. We reduced response time with kernel-bypassing and copy-free technologies. The second, I participated in improving *X-Paxos* (our implementation of the *paxos* protocol) to support data partition, so that different partition goes to different paxos group but not a single group on a node, which will result in better performance.

Internship

2017 **Google**, *NBU (Next Billion Users) team*.

My work is related to mobile development, but the detail is highly confidential.

2015 **Morgan Stanley**, *Technology & Data Department*.

Designed and implemented a simulator of *CNAPS2* system to help testing. The Simulator receives and parses message packages and sends receipt to pretend to be a *CNAPS2* system.

2014 **DJI**, *Navigation Department*.

Developed a coding style checking tool.I focused in parsing the C source file to generate a syntax tree and loading style specifications on it. The Style specifications is configurable and it is quite easy to add more specifications with little work.

Project

2016 **Wgtcc**, *Compiler*, Independent Project.

Wgtcc is a small yet standard C11 compiler. It implemented almost full C11 language standard including some advanced features: Static Assertion, Unicode String, Compound Literal, etc. A preprocessor is also included.

2016–2017 **NVDS**, *Storage*, Research Project.

NVDS is a system that using nonvolatile memory in distributed storage system to provide fast replication and low latency. By synchronizing modifications on master to slaves with RDMA, it can replicate 256bytes in less than 5us latency.

Award & Performance

2015 **GPA Rank: 5%**.

2014 **First Prize in Electronic Design Contest in Provinces**.

2013 **Annual Best Students of HUST**.

2013 **National Scholarship**.

2012 **National Encouragement Scholarship**.

Skill

Languages **C** $\geq$ **C++** $>$ **Lisp** $\geq$ **Python** .

GitHub **`www.github.com/wgtdkp`**.