Kangping Dong

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Education

2015–Present	**MS in Network and Service computing, Supervisor: Linpeng Huang**, *Computer Science, Shanghai Jiaotong University*, expected 2018.
2011–2015	**BA in Micro Electronic**, *Electronic Engineering, Huazhong University of Science and Technology*.

Internship

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.

Projects

2016-present	**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. I am still working on this project.
2015-present	**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	**Julia**, *Web Server, Network Programming*, Independent Project.
	Julia is a small and high performance http server and reverse proxy. Making use of non-blocking I/O and *sendfile*, Julia achieves 56K QPS of 1KiB static page on commodity machine.
2016	**Juson**, *Json, Parser*, Independent Project.
	A lightweight fast json parser for C. Its performance beats 24 json parsers in this *benchmark*.

Awards & 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**.

Skills

Languages	**C ≥ C++ > Python > Lisp**.
English	**CET-4 549**, *fluent in reading and writing*.
GitHub	`www.github.com/wgtdkp`.

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教育

2015至今　**硕士**, 上海交通大学计算机学院，导师：黄林鹏, 将于 2018 年毕业.

2011–2015　**本科**, 华中科技大学电子工程系.

实习经历

2015　**摩根士丹利信息技术暑期实习生**, 技术与数据部门.
设计并实现了第二代支付系统模拟交易软件，协助测试内部交易系统。该模拟器通过解析报文并发送对应的回复报文伪装为通信对端，与内部系统进行模拟交易。

2014　**大疆创新(DJI)**, 导航部门.
开发编码规范检查工具。该工具通过解析源程序，生成对应的语法树，将编码规范应用与对应的语法树节点以生成建议修改报告。

项目经历

2016至今　**NVDS**, 存储, 研究项目.
NVDS主要研究将非易失性内存应用于分布式存储系统，以提供快速备份与更低的延迟。通过将主节点的修改以RDMA写的方式同步到从节点，NVDS能够以低于5us的延迟完成256字节数据的备份。我仍然在做进一步的研究。

2015至今　**Wgtcc**, 编译器, 独立项目.
wgtcc 是一个C++11编写的小巧的C11编译器。不仅支持完整的C语言语法，还包括C11中引进的诸多新特性，如: Static Assertion、Unicode String、Compound Literal等等。该编译器还包含一个完整的C预处理器。

2016　**Julia**, web服务器，网络编程, 独立项目.
julia是一个基于非阻塞I/O的高并发web服务器和反向代理。在局域网内，可达到 50K QPS 的 1KiB 静态页面访问。

2016　**Juson**, json，解析器, 独立项目.
juson是一个轻量级的json解析器。其性能超过 taocpp/json、Parson、json-c等众多C/C++ json解析器。

奖项与表现

2015　**总绩点排名：前5%**.

2014　**省电子设计竞赛一等奖**.

2013　**年度特优生**.

2013　**国家奖学金**.

2012　**国家励志奖学金**.

技能

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

英语　**CET-4 549 分**, 流利的英语读写能力.

GitHub　www.github.com/wgtdkp.