Kangping Dong

✆ (+86)131-6708-5091
✉ wgtdkp@163.com
🖰 www.github.com/wgtdkp

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. It is Simulator that can receive and parse packages and send receipt to pretend to be *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 laoding style specifications on it. The Style specifications is configurable and it is quite easy to add more specifications with little work.

Projects

2015-present **Wgtcc**, *Compiler*, Independent Project.
Wgtcc is a small yet powerful 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 Serveice, Network Programming*, Independent Project.
Julia is a small and high performance http server and reverse proxy inspired by NGINX. 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 json parser implemented in 500 lines C. Its performance beats 24 json parsers in this *benchmark*.

2015 **6502 CPU Emulator**, *CPU, Assembly*, Independent Project.
A software emulated 6502 CPU to help understanding virtual machine and interpreter. A 6502 assembler is also implemented to support running assembly code.

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 > Rust**.

English **CET-4 549**, *fluent in reading and writing*.

董康平

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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

2015至今 **Wgtcc**, 编译器, 独立项目.
wgtcc 是一个C++11编写的精简的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、compound literal、unicode string等等。该编译器还包含一个完整的C预处理器。

2016 **Julia**, web，网络编程, 独立项目.
julia是一个类NGINX的基于非阻塞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1KB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。具有代码短小、易读、使用方便等优点。性能超过taocpp/json、Parson、json-c等众多json解析器。

2015 **6502 CPU Emulator**, CPU，汇编器, 独立项目.
软件模拟的6502 8位CPU/虚拟机。同时，其包含一个汇编器，支持汇编编程。

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** ≥ **C++** > **Python** > **Rust**.

英语 **CET-4 549 分**, 流利的英语读写能力.