

Jian Ping Zeng

Hangzhou, China

Compiler engineer

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Profile

I am a compiler engineer in HangZhou C-sky corporation, China. Before that, I worked in Alibaba Group to develop a static analysis system for Objective C. My main research interests lie in compiler construction, in particular optimization based on IR, instruction selection and register allocation.

Experience

Compiler engineer, Hangzhou C-sky corporation - since Dec 2017.

work on tuning gcc and llvm for csky backend.

Software engineer, Alibaba Group - June 2017 – Dec 2017.

develop a static analysis system for mobile Taobao app on iOS platform.

Summer internship, Alibaba Group – June 2016 – Sept 2016.

Augment parser of Google V8 virtual machine for parsing type annotation to Javascript.

Open source software development – since Aug 2015

Develop a C compiler(XCC, <https://github.com/JianpingZeng/xcc>) written in Java for compatible with LLVM for the purpose of researching.

Education

Master. HuaZhong university of Science and technology (Major GPA 3.5/4.0), Sept 2014 – June 2017.

Bachelor. JiaXing university (Major GPA 3.7/4.0). Sept 2010 – June 2014.

Skills

Language – Chinese(native), English(13 years in school).

Program language – 7 years of C/C++ experience, 5 years of Java experience, 3 years of C# experience in large project, 2 years of Python experience in data analysis and generating test case.

Compiler – familiar common independent optimization upon IR in SSA form, dataflow/control analysis methods, instruction selection and register allocation, especially in register allocation. Also familiar with LLVM compiler infrastructure.

Currently studying GCC.