

# 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.

Exchange Student, Central South University, Sept 2012 – June 2013.

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

## Skills

**Language** – Chinese (native), English (13 years in school), German (a little)

**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.