

Bowen Cai

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Education	Master of Science in Computer Science , Texas A&M University, U.S.A. GPA: 3.38. Advisor: Dr. Jeff Huang.	Jan 2016 – Dec 2017 (expected)
	B.E. in Computer Science , Northwestern Polytechnical University, P.R. China GPA: 84/100, top 10%.	Sept 2011 – Jun 2015
	Exchange student at the Delft University of Technology, the Netherlands.	Oct 2014 – Mar 2015
Skills	Proficient in Scala , C++ , good at Python , C# . Work experience with MySQL , Java EE , and HTML5 . Experience in LLVM (research projects), GTest , TestNG , cryptography , network programming . Basic Client-side develop skills with Qt , Swing , Android . Effective communication and collaboration skills.	
Experience	Internship at Alibaba-Inc , server-side Java developer, got a return offer. 1. Improved Wangqi 2.0, added new interfaces. 2. In WangXin 3.0 project, implemented commenting and voting functions on the server-side with Spring, designed and implemented admin web console.	July – Oct 2014
	Internship at Zhuoyuan Information Technology , front-end developer. presented and synced data using ExtJS and Springframework.	Jul – Aug 2013
	RoboCup 3D Simulation Team , developer. program robot players, improve its speed and stability.	Aug – Dec 2012
Projects	<ol style="list-style-type: none">Research in Program Analysis and Concurrent Bug Detection:<ol style="list-style-type: none">Shiyong Huang, Bowen Cai, Jeff Huang. Towards Production-Run Heisenbugs Reproduction on Commercial Hardware. USENIX ATC2017. Implemented Ball-Larus path profiling in LLVM and tested it on several large programs.Bowen Cai. Code Parallelization through Sequential Code Search. Student Research Competition, ICSE 2016. Implemented a prototype code search engine (Github CodeSniffer)Implemented and tested a new redundant event filter for ThreadSanitizer (Github Tree-CPP).Developed a use-after-free detector for multithreaded programs on LLVM.Advanced Compiler Design Course: developed several code optimization algorithms on MiniPolaris.Program runtime monitor and analyze (PRMA): a distributed logging backend server for monitoring application servers and localizing bugs, implemented in Scala with AKKA.Slingshot: a simple functional language implemented in C#.eBay-like online C2C (Spring 2014): as the leader of a 13-man team, we developed a complete online C2C shopping website, including searching, transaction, advertising, and admin consoles for seller/buyer.Gplume (Fall 2013): designed and implemented a Java/Scala web framework (similar to Springframework), it supports dependency injection, JSP, JSON, JDBC, Web MVC, etc. Several websites were built using my framework.Some other fun spare-time programs on Github (github.com/xkommando).	