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| **Bowen Cai**  *www.caibowen.com bowen.cai@tamu.edu* | Chinese with F1 Visa |
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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** | 1. Research in Program Analysis and Concurrent Bug Detection: 2. Shiyou 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. 3. **Bowen Cai**. Code Parallelization through Sequential Code Search. Student Research Competition, ICSE 2016. Implemented a prototype code search engine (Github CodeSniffer) 4. Implemented and tested a new redundant event filter for ThreadSanitizer (Github Tree-CPP). 5. Developed a use-after-free detector for multithreaded programs on LLVM. 6. Advanced Compiler Design Course: developed several code optimization algorithms on MiniPolaris. 7. Program runtime monitor and analyze (PRMA): a distributed logging backend server for monitoring application servers and localizing bugs, implemented in Scala with AKKA. 8. Slingshot: a simple functional language implemented in C#. 9. 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. 10. 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. 11. Some other fun spare-time programs on Github (github.com/xkommando). | |