

Fuyao Zhao

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Education	Carnegie Mellon University , Pittsburgh, PA 15213 <i>School of Computer Science,</i> M.S., areas: Programming Language & Information System ¹ Central South University , Changsha, Hunan China <i>School of Information Science and Engineering,</i> B.S., Computer Science. (Distinguished Graduate Award)	Aug., 2010 - May., 2012 Sept., 2006 - Jun., 8
Employment	SDE , <i>Google.com</i> Not start yet. Teaching Assistant , <i>Carnegie Mellon University</i> Grading, designed and implemented distributed query engine for assignment. SDE Intern , <i>Amazon.com</i> Designed and implemented the prototype system on AWS for monitoring and analyzing the phone call status & recordings to ensure customer service quality. Coaching Assistant , <i>Central South University</i> Assisted training teams of CSU for ACM Collegiate Programming Contest. Shared responsibility for lectures and worked as organizer in programming contest.	Sept., 2012 - Sept., 2011 - Dec. 2011 Jun., 2011 - Aug., 2011 Aug., 2009 - Jun., 2010
Academic Experience	Programming Language & Software Engineering <i>Carnegie Mellon University</i> , Advisor: Prof. Jonathan Aldrich Working on Plaid Programming Language design, compiler optimization, type checking and new language features support provide better data access pattern. Text Algorithm Design & Analysis <i>Central South University</i> , Advisor: Prof. Langsheng Yu Studied text algorithms and proposed two novel algorithms on string matching and compression, which earned the <i>Excellent Bachelor's Thesis</i> in my department.	Sept., 2010 - present Nov., 2008 - Jun., 2010
Course Projects	Parallel Lempel-Ziv: Implemented and compared the Parallel LZ77 and LZW algorithms for data compression. Mobile OS Evaluation: Implemented the syscall trace tool for iOS. Collected, compared and analyzed the traces from both iOS and Android. Automatic Parallelization: Implemented “Decoupled Software Pipelining” in LLVM with POSIX to automatic multithreading programs. Bug Localization: Applied graph mining & machine learning in dynamic program analysis, predict bug locations according to the change of classification accuracy.	
Awards & Scholarships	• Excellent Bachelor's Thesis, Central South University, 2010 • Gold Medal, 34th ACM International Collegiate Programming Contest Asia, 2009 • China National Scholarship, China Ministry of Education, 2009 • Honorable Mention, The Mathematical Contest in Modeling (MCM), 2009	
Skills	• Programming: Java, C/C++, SML, C#, Javascript, perl, Matlab, SMV • Distributed & Parallel Programming: MapReduce, AWS, Cuda, OpenMPI, MPI • Data processing: PostgreSQL, MySQL, SQL Server • Excellent in algorithm design & data structure, good at machine learning • Good at teamwork, strong communication and presentation skill	

¹Course works: **PL/Compiler:** Principles of Programming Language, Programming Language Semantics, Model Checking, Optimizing Compiler. **System:** Advanced Operating and Distributed System, Parallel Computer Architecture and Programming, Very Large Information System. **Others:** Machine Learning, Software Engineering