Yangqingwei Shi

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EDUCATION & PROFESSIONAL EXPERIENCE

SEP 2012-PRESENT	BS Candidate in Computer Science, **Peking University** OVERALL GPA: 88.4/100 | MAJOR GPA: 89.5/100 Member of PKU-CS Top Elite Plan (for top 10% students)
MAY 2014-PRESENT	Research Assistant at Software Engineering Institute, **Peking University** FIELDS: Software Testing; Program Analysis & Optimization | ADVISOR: Dr. Yingfei Xiong
JUL 2015-SEP 2015	Research Internship at Computer Science Department, **Carnegie Mellon University** FIELDS: Programming Languages; Software Architecture | ADVISOR: Dr. Jonathan Aldrich
FEB 2014 -JUN 2014	Teaching Assistant, School of Electronics Engineering and Computer Science, **Peking University** COURSE: Algorithm Design and Analysis | SUPERVISOR: Dr. Haiyan Zhao

RESEARCH PROJECTS

MAY 2014-PRESENT	**Dynamic Mutation Analysis** (Software Testing, Program Analysis | C++) Advisor: Dr. Yingfei Xiong Software Engineering Institute, Peking University — Developed a novel model of mutation analysis that analyzed mutants during the execution of the program, and forked the execution only when a mutant led to a new system state; — Prepared the manuscript and submitted to ICSE 2016, pending review; Corresponding poster exhibited in PKU Young Scientist Symposium 2015.
JUL 2015-OCT 2015	**Language Based Architectural Control** (Software Architecture, Programming Languages | Java) Advisor: Dr. Jonathan Aldrich Institute of Software Research, Carnegie Mellon University — Extended a module system based on Wyvern Language to enforce the architectural behavior by integrating these architectural descriptions directly into the language. — Included the implementation in a paper and submitted to ECOOP 2016, pending review;
SEP 2014-OCT 2015	**Contextual Dynamic QR Code** (Mobile Computing | HTML+Servlet+Android) Advisor: Dr. Kaigui Bian Institute of Network Computing and Information Systems, Peking University — Initiated a novel QR code system which accepted inputs from many phone sensors besides the phone camera, and dynamically varied its output according to various contexts where the code is published; — Corresponding patent accepted by State Intellectual Property Office of China; Manuscript submitted to IEEE ICC 2016, pending review.

AWARDS

Nov 2015	3rd Prize of Peking University Young Scientists Symposium (top 10%)
Oct 2014	Wusi Scholarship of Peking University (top 10%)
May 2014	3rd Prize of 13th ACM Programming Contest in Peking University
Oct 2013	Outstanding Academic Award of Peking University (top 10%)

COURSE PROJECTS

SPRING 2015	A Programming Language for Complexity Control (OCaml | Group)
SPRING 2015	TuanJuPKU, a Platform for PKU Unions (Android+HTML | Group)
SPRING 2015	Face Mock Show on WebChat (HTML+Python | Group)
FALL 2014	5-Step MiniJava to MIPS Compiler (Java | Independent)
SPRING 2014	A Scheme Metacircular Evaluator (Scheme | Independent)
SPRING 2014	Metaheuristics for Float-Point Inaccuracy Detection (Independent)
FALL 2013	Vi-like Text Editor Based on NCurses (C++ | Group Leader)
FALL 2013	ICS Labs (Data, Bomb, Attack, Arch, Cache, Malloc, Shell, Proxy | Independent)
FALL 2012	Poem Search Engine Based on LSI System (C+MATLAB | Independent)

SKILLS

PROGRAMMING:	Proficient in Java, C, C++, Web Programming; Familiar with Functional Programming, Android;
TOOLS:	Proficient in Linux, Git, LaTeX;
STANDARD TESTS:	TOEFL 106 (R28+L27+S23+W28) | GRE V157+Q170+AW3.5