

Yangqingwei Shi

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EDUCATION

SEP 2016-DEC. 2017 Carnegie Mellon University, Master of Sincience in Computer Science

SEP 2012-JUN 2016 Peking University, Bachelor of Science in Computer Science

OVERALL GPA: 87.4/100 | MAJOR GPA: 88.6/100

SELECTED COURSEWORK

UPCOMING: Machine Learning

FINISHED: Algorithm Design and Analysis
Computer Architecture
Software Engineering

Graduate Algorithms

Computer Network
Programming Languages
Operating System

Web Application Development

Compiler Design
Discrete Mathematics
Probability Theories and Statistics

SELECTED PROJECTS

SPRING 2015 UnionPKU, a Platform for PKU Unions (Group Project | HTML + Android) [Report] [Android App]

– Built a platform integrating all campus unions including a website for union administer and an Android application for union members.

SPRING 2015 Face Mock Show on Wechat (Group Project | Python + HTML) [Webpage]

– Created a social network application on Wechat for mocking other's face and get a score.

SPRING 2015 Programming Language for Complexity Control (Group Project | OCaml) [Report]

– Designed and implemented an imperative programming language written for computational complexity control that any well-typed program can be computed in polynomial time and any program can be computed in polynomial time on Turing Machine can be written in our language.

RESEARCH EXPERIENCE

MAY 2014-JUL 2016 Dynamic Mutation Analysis (Software Testing, Program Analysis | C++) [Poster] [Thesis]

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;

JUL 2015-NOV 2015 Language Based Architectural Control (Programming Languages | Java) [Poster]

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.

SEP 2014-OCT 2015 Contextual Dynamic QR Code (Mobile Computing | HTML+Servlet+Android) [Patent]

Advisor: Dr. Kaigui Bian Institute of Network 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;

AWARDS

Nov 2015 3rd Prize of Peking University Young Scientists Symposium (top 10%)

MAY 2014 3rd Prize of 13th ACM Programming Contest in Peking University

OCT 2013 Outstanding Academic Award of Peking University (for GPA top 10%)

SKILLS

PROGRAMMING: Proficient in Java, C, C++, Python and Web Programming

Familiar with Functional Programming, Android and MATLAB

TOOLS: Proficient in Linux, Git, LaTeX