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, SUMMA CUM LAUDE
	OVERALL GPA: 87.4/100 | MAJOR GPA: 88.6/100

SELECTED COURSEWORK

UPCOMING:	Computer Vision	Parallel Programming	Multimedia Data Mining
FINISHED:	Machine Learning	Algorithm Design and Analysis	Web Application Development
	Computer Network	Compiler Design	Computer Architecture
	Programming Languages	Software Engineering	Operating System

SELECTED PROJECTS

FALL 2016	**Appetit, a competitive dining service web application** (Group Project | Django) [Webpage] — Implement a competitive dining service pairing platform on which user and restaurants can fully interact and delopy the platform on Digital Ocean.
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 Emotion Analysis on Wechat** (Group Project | Python + HTML) [Webpage] — Combined several face recognition and emotion analysis algorithms to design an interesting app that tells if one's selfie resembles to any of the Emoji.
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.

RESEARCH EXPERIENCE

MAY 2014-JUL 2016	**Dynamic Mutation Analysis** (Software Testing, Program Analysis | C++) [Conference Paper] 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 paper "Faster Mutation Analysis via Equivalence Modula State" be conditionally accepted by FASE 2017.
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

SKILLS

PROGRAMMING:	C++, Java, Python, OCaml, Scheme, HTML, Javascript, PHP
TOOLS:	Linux, Git, LaTeX, LLVM, ASM Framework, Django, MATLAB, OpenCV, OpenGL