Shiyu Dong

Personal Information

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Objective

Seeking for a full-time Software Development Engineer position starting in two months.

Work Experience

July 2014 -Present — Qualcomm Incorporated, *Software Engineer*
- Work in Android Radio Interface Layer (RIL) team, which handles the communication between Android Telephony and Qualcomm modem.
- Add new features, fix existing issues and maintain different product lines for RIL code base in C.
- Develop and maintain a RIL Unit Test Framework (UTF) in C++; Maintain the Buildbot continuous integration framework in Python for UTF automation.
- Design and implement a Python based auto-triage tool, which analyzes RIL logs, decodes hex messages in log and generates log summaries and call flow diagrams to help other team members with triaging.

Aug 2013 -Jan 2014 — The University of Texas at Austin, *Graduate Research Assistant*
- Conducted research for the impact of different compiler optimizations on symbolic execution under the supervision of Dr. Sarfraz Khurshid.

Jun-Aug 2013 — Qualcomm Incorporated, *Software Engineer Intern*
- Refined UTF logging and implemented a log parser and HTML generator for UTF logs.
- Optimized UTF framework to make it scalable to large number of test cases and able to support more complex features.
- Designed an auto test case generation tool in Python that converts RIL logs into executable UTF test case.

Jan-May 2013 Jan-May 2014 — The University of Texas at Austin, *Teaching Assistant*
- Teaching Assistant for *Requirement Engineering* class taught by Dr. Suzanne Barber (2013) and Dr. Yinle Zhou (2014).
- Gained familiarity in different requirement representations types and different software development life cycle models including traditional waterfall model and agile model.

Education

Aug 2012 -May 2014 — The University of Texas at Austin
M.S.E., Electrical and Computer Engineering | Gpa: 3.82/4.0
Thesis: "An Empirical Study of the Influence of Compiler Optimizations on Symbolic Execution" supervised by Dr. Sarfraz Khurshid

Sep 2008 -Aug 2012 — Shanghai Jiao Tong University, Shanghai, China
B.S., Electrical and Computer Engineering | Gpa: 3.73/4.0
Thesis: "Motor Control in Endoscopic Probes Based on Infrared Signals" supervised by Dr. Jigang Wu

Knowledge and Skill Set

Solid foundation in data structures, algorithms, object oriented programming, Linux environment programming, Unix system, GNU tool chain and version control tools. Good understanding in operating system, computer architecture, compiler (both front end and back end), software engineering concept, requirement engineering concept and most software testing techniques. Basic understanding in computer networks.

Programming Languages

Fluent:	C++, C
Intermediate Knowledge:	python, java, Matlab, LaTeX
Basic Knowledge:	perl, html, java-script, junit, Pascal, VHDL, Alloy, Assembly