Yongjian Hu

CONTACT
INFORMATION

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RESEARCH
INTERESTS

Software reliability, programming languages, debugging, deterministic replay for event-driven mobile systems.

EDUCATION

University of California Riverside, Riverside, California USA

Ph.D. Candidate, Computer Science & Engineering, (2012.9 - Present)

- GPA: 3.967/4.0
- Advisor: Prof. Iulian Neamtiu

Donghua University, Shanghai, China

M.S., Computer Science, 2010.3

Donghua University, Shanghai, China

B.S., Computer Science, 2007.6

EXPERIENCE

University of California Riverside, Riverside, CA USA

Research Assistant **2013.7 - present**
Research on designing a light-weighted record and replay tool for event-driven mobile system. The current target is Android. Traditional whole system replay tools are too heavy-weighted and not suitable for mobile devices. Our insight is that we could capture only a portion of the events that are enough for reproducing event-driven concurrent bugs.

Intel Corporation, Shanghai, China

Software Engineer **2010.4 - 2012.7**
Member of Binary Translation Team, SSG. I join the "Houdini" project. "Houdini" is a dynamic binary translator that translates Arm code to x86. It allows Android applications which contain native Arm code to seamlessly run on x86 devices. My main job is to develope tools to ensure product quality and performance. I have developed a code/path coverage tool to provide metrics of the software quality. The performance tool is based on sampling and instrumentation techniques to detect and breakdown the overhead of the product.

PUBLICATIONS

Yongjian Hu, Wei Xiao. A System-level Path Coverage Tool for Software Validation. Intel Software Professionals Conference (SWPC), October 2011.

Wei Xiao, Haihao Shen, Yongjian Hu. A Multi-platform System-level Path Coverage Tool. Intel Design and Test Technology Conference (DTTC), June 2011.

HONORS AND
AWARDS

University of California Riverside Graduate Fellowship, 2012.

Excellent Graduate Student of Donghua University, 2010.

Excellent Undergraduate Student of Shanghai. 2007.

Bronze Medal, ACM/ICPC Asia Regional, Beijing 2006.

Bronze Medal, ACM/ICPC Asia Regional, Beijing 2005.

Computer Skills
- Programming Languages: Java, C/C++, OCaml, Ruby.
- Tools: Vim, Eclipse, Git, Subversion.
- Operating Systems: Linux, Mac OSX.