Jianing Sandra Guo
Resume

Work Experience

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My Portfolio

Fall 2011 – Current

Senior Software Engineer at Google
Technical Leadership, Design, and Architecture for Privacy

I provide technical leadership, product management, and design and architect systems that enforce and verify internal data access policy. I helped grow my team from 3 to 15 people. As an area lead on my project, I manage work breakdown and feature research and prioritization. I build and maintain customer relations and expectations.

I enable coordination between different parts of the privacy group at Google by teaching company-wide seminars on privacy practices, traveling to other offices, and spending my free time improving internal security frameworks. I also attend and recruit from Grace Hopper, mentor woman engineers, and promote women in Tech.

Spring 2010 – Fall 2011

Junior Software Engineer at Google
Implementing Internal Hiring Software

My project was to maintain and later on rebuild the hiring interview and requisition system used by Google. I implemented several UI features and back end optimizations for the old Postgresql based system. I was part of a four person team to redesign and rebuild the requisition management system, with a hard deadline of 2 months from start to deliver.

Spring 2008 – Spring 2010

Research Assistant in the Security, Programming Languages, Algorithms, and Theory Lab
Researcher

As a *paid* researcher I developed a prototype called Memsafe. It was a CIL-based zero-day exploit mitigation system using pre-patching. I co-authored a paper about my work at USENIX Hot Security 2009 and was the presenting author. I analyzed performance and developed several optimizations to lower overhead.

Spring 2009 – Fall 2009

Engineering Intern at Google
SecOps-VM Vulnerability Remediation

I was one of only two interns taken that year for all of security. I designed and developed the VRC: Vulnerability Remediation Console. The VRC securely aggregates security bug information from incompatible bug-tracking platforms and imports bug reports from vulnerability scanners.

Education

2006 – 2010 | **Bachelor of Science, with Honors**
Major in Computer Science, Honors, Minor in Studio Art, Magna Cum Laude
The University of Stony Brook

Publications and Awards

Provost's Award
Nominated for Academic Excellence
Stony Brook

Pre-Patched Software
Published in USENIX Hot Security, 2009

ACM New York Regional
Programming Competition, 9th place
ACM

Computer Skills

Languages	Java, C, Python, scripting
Other Skills	Privacy, Security, Product Management, UI, Machine Learning, Data Analysis, Cloud Architecture, Databases, File Systems, Static Analysis

Work Experience Continued

November 2007

Freelance Consultant while at Stony Brook
Corner-Detection for Silicon X-Ray Topography

I analyzed silicon X-ray images and developed new *corner-detection* algorithms to meet the unique specifications of the Material Sciences Department. I interacted with graduate teams for requirements analysis and led the development team to implement the solution.