

SANG MIN PARK

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Objective

A summer internship in the areas of programming-language or software-engineering research.

Education

Georgia Institute of Technology, Atlanta, GA, USA

Ph.D in Computer Science, expected Aug 2012

GPA: 4.00/4.00

Korea Advanced Institute of Science and Techology (KAIST), Daejeon, Korea

Bachelor of Science in Computer Science, Feb 2007

GPA: 3.87/4.00

Professional Experience

Georgia Institute of Technology, Atlanta, GA

(Aug 2007 – Present)

Research Assistant/Independent Research with Prof. Mary Jean Harrold

Research Topic: Test Suite Augmentation using Symbolic Execution

- Developing an algorithm and a tool to augment an existing test-suite to cover uncovered branches of the program. Because naive symbolic execution of a program does not scale when there is large number of paths, the underlying idea behind the algorithm is to choose paths based on information (e.g., already covered paths) obtained from the existing test-suite. The tool uses the symbolic-execution framework of the JavaPathfinder model checker, which is being developed at NASA Ames Research center.

Korea Advanced Institute of Science and Technology, Daejeon, Korea

(Sep 2006 – Dec 2006)

Research Assistant in Software Engineering Laboratory

- Designed a K-Model (Korean Software Process Improvement Model) for small and mid-sized enterprises that is fully compatible with international models such as CMMI and SPICE.

Somansa, Seoul, Korea

(Jan 2003 – Apr 2006)

Software Engineer

- Designed and developed a Web analytics solution that reports statistics for Web portals. The product analyzed the world's 3rd biggest Web site, NATE.com, in 2004.
- Collaborated on a four-person team to design and implement an RTMonitor to provide real-time monitoring of users' activities from Web server groups.

Somansa, Seoul, Korea

(Jul 2002 – Aug 2002)

Software Intern

- Designed and implemented software to monitor the company's solutions.

Relevant Courses: Introduction to Graduate Studies, Advanced Topics in Software Testing and Analysis, and Computability, and Algorithms, and Complexity.

Certifications

- Engineer Information Processing, Korea
- Microsoft Certified Professional
- Microsoft Certified Software Developer

Technical Skills

- Languages : C/C++/C#, Java, Python, SQL, ASP/ASP.NET, HTML, JavaScript, CSS, XML
- Windows : MFC, NT Service, COM+, WDM (Windows Driver), NDIS (Network Driver)
- Additional : High Volume Network Packet Analysis (Giga Traffic)
- Database : SQL Server, Oracle
- OS : Windows, Linux

Honors and Awards

- B.S. **Summa cum Laude** from KAIST
- **Odysseus Scholarship** from KAIST Computer Science Division
- Government Scholarship from Korean Government
- Merit-Based Scholarship from KAIST

Additional Activities

President of KAIST association, Georgia Tech, GA, USA (Feb 2008 – Present)

Leader of Software Engineering Reading Group, Georgia Tech, GA, USA (Feb 2008 – Present)

Technical Writer in Microsoft Computer Magazine, Seoul, Korea (Jun 2007 – Aug 2007)

- Posted an article named "Developing NDIS Filter Drivers"

IDOS, KAIST, Daejeon, Korea (Mar 2001 – Feb 2007)

- IDOS is a system programmer's group in KAIST aimed at creating a new OS.
- Developed "File Recovery Manager" and won 1st Prize in Computer Science competition in Computer Science division, 2002, as part of a four-person team.

Samsung Software Membership (SSM), Daejeon, Korea (Jan 2002 – Dec 2002)

- SSM is a self-oriented research group of talented computer science students, run by Samsung Electronics.
- Created "IP Manager" permitting automatic retrieval of IP addresses at any time or place.

Professional Memberships: ACM

References: provided upon request