

DongInn Kim

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EDUCATION

Indiana University	Bloomington, IN
PhD of Science-Computer Science	Dec 2019
Minor in Security	
Master of Science-Computer Science	Dec 2011
Bachelor of Science-Computer Science	May 2004
Minor in Mathematics	
Computer Science Honors Certificate	
Yonsei University	Seoul, Korea
Bachelor of Science	Feb 1995
Material Engineering	

SKILLS

Programming Languages:

Java, Perl, C#, C++, C, shell scripting, Python, Scheme, Assembly, Ocaml, Heskell, Ruby.

Operating Systems:

Linux, MAC OS X, Windows, UNIX, MS-DOS.

Web Programming:

JDBC, JSP, Java Servlets/Applet, CGI, HTML, XML, JavaScript, PHP, ASP, .NET, Jekyll, Mojolicious, jQuery, AJAX, Node.js

Database:

MySQL, PostgreSQL, Sqlite, ORACLE, MS-SQL.

Tools:

Matlab, R, Mathematica, OpenGL, Latex, Subversion, Git, Radare2, Unicorn, Capstone, Keystone, Angr

PROJECTS

OSCAR (Open Source Cluster Application Resources), CIFTS(Coordinated infrastructure for Fault Tolerance Systems), LAM/MPI (Message Passing Interface), Open MPI, OAH Conference Management System (JDBC), Used Book Exchanging System – Website using JDBC (JSP, Java Servlet, Java Scripts, and MySQL), Search Engine (Java), Solitaire Card game (Java Applet), Space Invader game (Applet), Address Book (C++), Packman game (Scheme), Member Management System (C-Lang), trac, hypermail, XML-RPC, bcfg2, nagios, chef, TEI XML Editor.

EXPERIENCE

Core member/developer

IU CTF (Indiana University Capture The Flag)

Teach the graduate class, B649 (Cyber Defense Competition) in Spring 2018. Participate in developing an intelligent solution to analyze binary codes.

System Administrator/Programmer

CREST (Center for Research in Extreme Scale Technologies)

System Administrations for all the CREST computing resources: 21 server machines and 71 Apple/Linux/Windows workstations. Maintain the CREST clustering computers (thumb cluster).

System Analyst/Programmer

OSL (Open Systems Lab)

System Administrations for all the OSL computing resources: 10 server machines and 23 Apple (G5) workstations.

Developer Bloomington, IN
CIFTS (Coordinated infrastructure for Fault Tolerance Systems) Aug 2010 – Feb 2012
Developed the Fault Tolerance Backplane Testing Tool (FTT) based on MPI Testing Tool (MTT) and FTB-enabled syslog application.

Core member/developer Bloomington, IN
OSCAR (Open Source Cluster Application Resources) June 2004 – Present
Facilitate development and release of the new version of OSCAR. Responsible for taking care of all the OSCAR systems (web sites, subversion repositories, wiki, trac, and virtualization server), OSCAR Database API (ODA), and supporting three OSCAR packages (mta-config, switcher, and Open MPI). Set up OSCAR on Play Station III (PS3) to utilize the full performance of cell core chips on PS3 cluster.

Webmaster Bloomington, IN
ISI (International Student, Inc.) Mar 2003 – Dec 2003
(<http://www.indiana.edu/~isi>)
Created and continue to manage the website using HTML, JavaScript, and PHP.

Web Programmer Bloomington, IN
OAH Conference Management System Feb 2003 – May 2004
(<http://www.oah.org:8080/dbproject>)
Created website to service the web-based conference management system. Used JDBC, JSP, Java servlet, and applet.

Web Planning & Strategic Planner Seoul, Korea
KTLINK Oct 1999 – Sep 2000
Set up web services for a company that provides knowledge and technology services to engineers.

Assistant Manager Busan, Korea
SAMSUNG Electro-Mechanics Co. Mar 1995 – Apr 1999
Participated in developing and adjusting SAP/R3 in the Factory Control System of Samsung Electro Mechanics Co. Set up Oracle database for Die (Press, Casting, and Molding).

PUBLICATIONS

DongInn Kim, Jeffrey M. Squyres, and Andrew Lumsdaine. *The Introduction of the OSCAR Database API (ODA)*. In Proceedings of the 20th International Symposium on High-Performance Computing in an Advanced Collaborative Environment (HPCS'06), pages 39, May # 14-17, 2006. IEEE Computer Society. Note: Session track: 4th Annual OSCAR Symposium (OSCAR'06).

DongInn Kim, Jeffrey M. Squyres, and Andrew Lumsdaine. *Revamping the OSCAR database: A Flexible Approach to Cluster Configuration Data Management*. In Ilias Kotsireas and Deborah Stacey, editors, 19th International Symposium on High Performance Computing Systems and Applications, Guelph, Ontario, Canada, pages 326-332, May 2005. IEEE Computer Society.