

Jong Hyeop Kim

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EDUCATION

- **University of Southern California**, Los Angeles, California Fall 2008 – Expecting Dec 2010
Bachelor of Science, Computer Science (CSCI)
Honor, Dean's List, Sigma Alpha Lambda
- **Palomar College**, San Marcos, California Fall 2004 – Fall 2005 &
Fall 2007 – Spring 2008
5 semesters of preparatory course work for USC admission, Honor, Dean's List

WORK EXPERIENCE

Operation & Management Manager May 2007 - Present

iHubNet, Ltd. (<http://www.ihubnet.com>) – Wanchai, Hong Kong

- Bootstrapped a start-up web hosting company based on researches of worldwide tax law & computer server industry
- Contracted with Corporate Colocation, Inc., a data center and Syntrio Technologies, Pvt Ltd., an outsourcing company
- Designed and setup website for the company and online billing, ordering and helpdesk system using PHP, JavaScript, MySQL
- Developed the Software/Script using Linux Shell to maintain server securities
- Supervising overall operations as well as developing new procedures for sales, billing, customer and technical support
- Continually advancing business by developing new services related with hosting industries
- Currently hosting and managing over 2000 websites/domain names for customers

Engineering Intern – Mark Livingstone, EMS ALM Group May 2010 – Aug 2010

Qualcomm Inc. – San Diego, USA

- Designed and implemented new architecture to replace existing Continuous Integration (CI) environment to improve existing CI's reliabilities and performance.
- Currently about 400+ builds are depend on my implementation and shortly another 1000 builds will be depended on it.

Research Assistant – Prof. Kristina Lerman, USC ISI Jan 2010 – Present

University of Southern California. – Los Angeles, USA

- Researching and assisting on folksonomy/data mining and its visualization
- Designing & Implementing the software for automated annotation framework for folksonomy/data mining using crowd sourcing

Software Developer – Prof. Mark Thompson, USC Nano Bio Sensing Research Lab July 2009 – Sep 2009

University of Southern California. – Los Angeles, USA

- Developed & improving Web-based Database for a research project using MySQL
- Developed & improving Web-based Software to analyze data from measurements device using PHP

Human Resource Manager for Restaurant Franchise consisting of 4 locations Feb 2006 – March 2007

KinwaBussan, Ltd. – Tokyo, Japan

- Responsibilities included managing daily activities of employees and managing daily cash deposits and balancing of books
- Developed Software using Visual Basic and Excel to track growth and net sales as well as inventory

USC PROJECT EXPERIENCE

Federal Aviation Administration (FAA) Collision Prevention Software Project Fall 2008 & Spring 2009

Computer Science - Team Project, Java, OOP, UML, Design Document, Tread, GUI, Ant, Unit Test

- Used OOP design, UML design, JAVA, Ant, Team oriented-tools, Wiki, web-based task cards and Subversion
- Implemented Thread concept in parallel to Concurrency problem and JUnit for Unit Testing
- Worked with backend & GUI development teams via eXtreme and Pair programming and integrated to complete

Blackjack Simulator Project Spring 2009

Electric Engineering - FPGA board, Digital Design/Circuits, Verilog HDL, Modelsim ISE

- Developed Blackjack Simulator using FPGA board with LCD extension module & Verilog HDL and tested & debugged with testbench and waveform using Modelsim ISE

Proposal Document & Presentation Project Spring 2009

Advanced Writing for Engineering

Wrote 60 pages Proposal Document and Presented to Dr. Theodore Alexander Science Center School, Los Angeles as a solution for the improvement and renewal including lab station, lighting, storage and computer lab

OpenGL 3D Solar System Simulator Project Fall 2009

Computer Science – Team Project, Java, OpenGL

- Used OpenGL library and Java to simulate 3D Solar System
 - Implemented lighting, camera, texturing, shading and other Computer Graphic Techniques to have better look & Navigation feature to move around in 3D Solar System
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PERSONAL RESEARCH/PROJECT EXPERIENCE

Scalable Distributed SIP-based VOIP Infrastructure & Management Software

Jan 2008 - Present

Network , System, Software Research, Design and Implementation

– SIP, RTP, Proxies, Network Load Balancer, Virtualization, MySQL, PHP, Subversion, UML & ER Diagram

- Designed & Implemented distributed SIP VOIP Infrastructure by developing software Load Balancer for SIP traffic & Failover Monitor Software to maximize uptime on SIP systems
- Implemented Virtualization Technologies (OpenVZ) to host multiple SIP proxies & PBX systems in a physical system to reduce the hardware & bandwidth cost
- Implemented Security Measurements including authorization to the resource & configurations for SIP traffic
- Designed & Developing the API to allow 3rd party to access the Infrastructure Resource, Client-Side on the Web to provide the Service to the Public, & Management System for all SIP proxies and PBX systems in the network using PHP & MySQL

Web-based Virtualization Platform Management Software

Dec 2009 - Present

Virtualization Platform, Web-based GUI, Design & Implementation

– Virtualization (OpenVZ, Xen & others), PHP, MySQL, Web-GUI, System Scheduler, Custom made Priority Queue

- Designed & Implemented Web-based Virtualization Platform management system including API
- To enhance system security, disabled running system command directly and emulated Priority Queue to call system commands by using Script Language, Database and System scheduler

TECHNICAL & ADDITIONAL SKILLS

Programming Skills

C/C++, Java, Visual Basic, PHP, JSP, Perl, MySQL/SQL, XML, XSL, HTML, DHTML, JavaScript, CSS, Linux Shell, Verilog HDL

System & Network Administration Skills

UNIX/Linux & Windows servers, Apache, BIND, POP, SMTP, IMAP, SSH, FTP, SNMP, RSYNC, MySQL, Software PBXs (Asterisk), SIP Proxies (OpenSER/Kamailio), VPN, Virtualization Platforms (Xen, OpenVZ, KVM & VMware), VoIP Applications/Systems, Various Web Apps such as CMS/Groupware

Applications

MS Office, Photoshop, Dreamweaver, Eclipse, Ant, Maven, Repository Management System (Apache Archiva & Sonatype Nexus), Emacs, Xilinx ISE, Modelsim ISE, Subversion, Git, LDAP, NetScaler VPX

Functional Abilities

- Server administration - installation, configuration, optimization, security & software updates and audit, backup and restoration and hardware management including Dell PowerEdge/SuperMicro server, Cisco switch & network cabling
- Networking Knowledge - Ethernet, TCP/IP Protocols, Traffic Routing and QoS, VoIP protocols: SIP, IAX, RTP
- Project/Software Development Mythology – Agile, Scrum, Extreme Programming (XP)
- Dynamic website creation and management using web programming languages, databases, Search Engine Optimization(SEO)

Language Skills

- **Korean & Japanese** – Fluent in Written and Spoken (Native) / **English** – Written and Spoken