KIM, SANG HYUN

Principal Software Engineer

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📍 California, USA

EXPERIENCE

Principal Software Engineer

Johnson Controls

📅 October 2015 – Ongoing   📍 California, USA

- **Johnson Controls IoT Cloud Platform**: designed and developed a SOA-based, multi-tenant, IoT cloud platform that will receive messages from n millions of devices
- **Microsoft Risk Management Cloud Platform**: designed and developed Complex Event Processing Cloud platform that analyze correlation of messages from n millions of devices and detect threats in real-time using rules engine

Principal Software Engineer / Architect

Cisco Systems, Inc.

📅 January 2005 – October 2015   📍 United Kingdom & USA

- **Cisco Video Cloud Platform**: as a development team leader, designed and developed Android tablet and phone application that have magazine style UI, Black & White video, Google statistics, On demand video play, and TV Guide in a short time (6 months with 3 engineers)
- **Cox back-end system Design**: designed entire Cox back-end system from scratch with Cox design team that hugely improved maintainability nationwide. Cox back-end system includes ingesting TV guide from 3rd party, live and on-demand video streaming, TV Guide and Search, Recommendations etc for n million subscribers
- **Cox & Comcast X1**: delivered design with Cox & Comcast design team that reduces operation cost for Cox by integrating Comcast X1 platform and Cox back-end system
- **DirecTV Set Top Box**: developed multi-room DVR, set-top box applications that was targeting to n millions subscribers
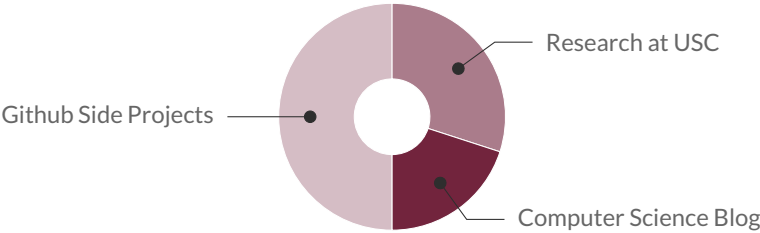
Software Engineer

Hyundai Digital Tech

📅 January 2003 – January 2005   📍 South Korea

- **Korea Digital Broadcast Set Top Box**: developed device drivers, OS porting, and managed a software release. a team delivered high quality products in short time including first HD set-top box in South Korea (3 months with 4 engineers)

CONTRIBUTION

Research at USC
Computer Science Blog
Github Side Projects

MOST PROUD OF

🏆 **Cisco CEO Award in 2010**
Awarded by successfully delivering Cox multi-room DVR project as a key engineer

🏆 **Cisco CEO Award in 2006**
Awarded by successfully delivering DirecTV DVR project as a key engineer

🏆 **Cisco Application Contest 2nd place**
Awarded 2nd place from Cisco Application Contest Worldwide with Parental Control Android Application

👥 **Developer Conference Presenter in Monaco**
Selected as a presenter at Cisco Developer Conference in Monaco with JSON Web Token topic

STRENGTHS

Java   Cloud   Digital Video Streaming
IoT   Web Service   Apache Storm
Rules Engine   Kafka   MQTT
MongoDB   HBase   Elastic Search
Solr   SQL   AWS   Android

Python   JavaScript   C

LANGUAGES

English   ●●●●●

Korean   ●●●●●

EDUCATION

M.Sc. in Computer Science

University of Southern California

📅 August 2014 – December 2017

B.Sc. in Information and Communication

Korea Univ. of Technology and Education

📅 March 1995 – February 2003