KIM, SANG HYUN

Principal Software Engineer

@ shkim9576@gmail.com   % https://shkim9576.github.io/   in linkedin.com/in/sang-hyun-kim-8179735   github.com/shkim9576
California, USA

EXPERIENCE

Principal Software Engineer
Johnson Controls

October 2015 – Ongoing   California, USA

- Johnson Controls IoT Cloud Platform Project: Design and Develop a SOA-based, multi-tenant, IoT cloud platform that will receive messages from n millions of devices
- Microsoft Risk Management Cloud Platform Project: Design and Develop 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

- Cox back-end system Design Project: as an architect, designed entire Cox back-end system from the scracth with Cox design team that switch distributed system to centralized system that hugely improved maintainability. 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 Project: as an architect, 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 Project: as a principal engineer, designed and developed multi-room DVR set-top box that was targeting to n millions subscribers
- Cisco Video Cloud Platform Project: 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)
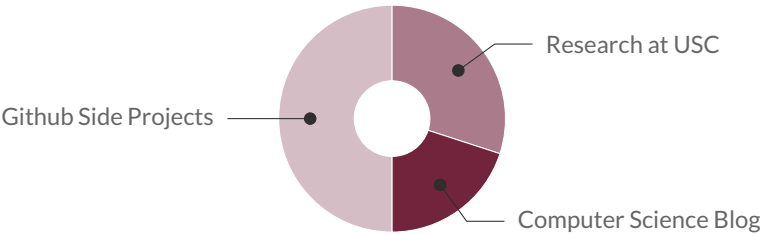
Software Engineer
Hyundai Digital Tech

January 2003 – January 2005   South Korea

- Korea Digital Broadcast Set Top Box Project: as a software engineer, 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 with 4 engineers in 3 months

CONTRIBUTION

Research at USC

Github Side Projects

Computer Science Blog

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

Cisco Application Contest 2nd place
Awarded 2nd place from Cisco Application Contest globally

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   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