

Work Experience

2015 - NOW

Associate Big data Platform SW Engineer, Samsung Electronics, Suwon, KR

- **Manufacturing Big Data**

- Implemented a defect-expected products notifier based on Python-JSON parser
- Implemented an automated pre-processor for manufacturing data on a Hadoop server
- Generated a defect prediction algorithm by applying data mining algorithm on manufacturing data and customer data

- **IIoT (Industrial Internet of Things) on building a smart factory**

- Implemented a data gathering module for vibration sensors and torque data
- Setting up a data pipeline based on IoT protocols for DAQs (Data AcQuisition modules)
- Implemented an automated updater for analog-data acquisition modules

2011 - 2012

Banking System SW Engineer, Urwego Opportunity Bank, Kigali, RW

International cooperation work under Korea International Cooperation Agency (KOICA)

- Implemented testbed database to test a mobile banking service modules throughout the regional areas

2010 - 2011

Network SW Engineer, Virtual University of Tunis, Tunis, TN

International cooperation work under Korea International Cooperation Agency (KOICA)

- Tested functions on a video streaming service on providing on-line lectures

2009

Intern, IAESTE Norway, Trondheim, NO

- Improved and debugged a management system of exchanging students in Norway that has been mainly built in PHP, ASP

2008

Intern, NEXON, Seoul, KR

- Designed & implemented a prototype of a casual action game based on BnB, the one of the masterpiece on NEXON

Education

2005-2009

BS, Computer Science, KAIST, KR

KAIST - Korea Advanced Institute of Science and Technology

Awards & Honor

2016

Silver Prize, Honourable Samsung Quality Prize of Excellence 2016, KR

by CFO of Samsung Electronics

- DA BDTF - Digital Appliance related Big Data Task Force Team

2016

6th Prize, 2nd Creative Concert in Samsung Electronics VIP Center, KR

- Smart & Safe Bus Handle - IoT-based advanced add-on bus grab handle

2016

Professional Programmer Certificate, Samsung Electronics, KR

2nd top class of SW Engineer at Samsung Electronics

2005~2008

National Science & Technology Scholarship for Undergraduates

Projects & Activity

2016-NOW

Prism, Fast color extraction API of Random pictures based on C++

Open source Project on github

Second Contributor

- Implemented color quantization algorithm using Octree
- Implemented Objective-C - C++ bridge & usage code

2011-2012

Founder & Leader, ICT Expo 2012, RW

Annual event sponsored by Embassy of the Republic of Korea in Rwanda

2006-2007

Concertmaster, Asturias, KAIST, Daejeon, KR

Asturias - Classical Guitar Ensemble of KAIST, approx 90 active members

- Organised 2 annual concerts on Mar.2007 and Sep.2007
- Improved a training system of the members and trained approx 70 members

Languages & Skills

Programming
Languages

Advanced

- C, C++, Python

Intermediate

- C#, Linux shell script, SQL, Java

Basic

- Javascript, Go, Swift, Objective-C

Skills

Big Data Platform (Hadoop Echo System)

- Hadoop MapReduce, KAFKA, Impala, Hive, HBASE, Oozie, YARN

Database

- MSSQL, MySQL, Mongo DB

IoT Gateway

- Arduino, Raspberry Pi, Artik

Languages

Korean (Mother Tongue), **English** (Fluent), **French** (Intermediate)

Mandarin Chinese (Beginner), **Kinyarwanda** (Beginner)