

Chanseok Kang

SOFTWARE ENGINEER · DATA SCIENTIST

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"In theory, there is no difference between theory and practice. In practice, there is"

Summary

Chanseok is Software Engineer worked in LG Electronics CTO Division. He is one of the "AI Specialist", certified by LG Electronics. Major rule is to implement Machine Learning algorithm in control domain to enhance energy efficiency. He also has an experience of developing system software operated in specific environment (such as Linux, RTOS, etc) with various communication peripherals (like UART, Serial RapidIO(SRIO), Hyperlink.) He is interested in various fields, not only specific topic, but also anything he can learn. He enjoys taking MOOCs on free time and got several certifications. Also, he tries to share his idea for someone who doesn't have domain knowledge through blog.

Work Experience

LG Electronics

Seoul, S.Korea

SPECIALIST

Dec. 2014 - Present

- Worked as a Test Engineer for release cellular model (L5000)
- Built CI/CD pipelines with Jenkins for Automatic Code Compile/Test/Report
- Developed Board Support Package (BSP) drivers for 5G Base Platform board
- Developed Energy-efficient Control Algorithm with Reinforcement Learning in HVAC Domain
- Deployed Machine Learning Algorithm for detecting Turnover people in HR Domain
- Developed Energy-efficient Control Algorithm & Test environment for Refrigerator

Carnegie Mellon University

Pittsburgh, Pennsylvania, USA

VISITING RESEARCHER

Apr. 2019 - Aug. 2019

- Developed Energy-efficient Algorithm with Reinforcement Learning in HVAC Domain
- Selected one of the "AI Specialist" in LG Electronics
- Advisor: Prof. Bhiksha Ramakrishnan

Korea Institute of Science and Technology (KIST)

Seoul, S.Korea

CONTRACT RESEARCHER

Jun. 2012 - Dec. 2012

- Developed Test application with Microsoft Kinect for demonstrating asymmetric bi-manual interactions
- Released Kinect Development Documentation with C/C++

University of Seoul

Seoul, S.Korea

LECTURER

Oct. 2012 - Dec. 2012

- Taught Basic Natural User Interface (NUI) Programming using Microsoft Kinect SDK

Ulsan National Institute of Science and Technology

Ulsan, S.Korea

UNDERGRADUATE RESEARCHER

Jan. 2011 - Feb. 2011

- Topic: On-chip Temperature Sensor in 45nm CMOS process
- Advisor: Prof. Youngmin Kim

Honors & Awards

2019	AI Specialist , LG Electronics	Seoul, S.Korea
2012	Semi-Finalist , Imagine Cup Kinect Fun lab	Worldwide
2011	Excellent Researcher Award , Ulsan National Institute of Science and Technology	Ulsan, S.Korea
2011	Excellent Teaching Assistant Award , Chung-Ang University	Seoul, S.Korea

Presentation

Software Engineer's Energizing Day (SEED) by LG Electronics

Seoul, S.Korea

PRESENTER FOR <REINFORCEMENT LEARNING FROM SCRATCH>

Jul. 2018

- Introduced OpenAI Gym Simulator and demonstration
- Introduced fundamentals of Reinforcement Learning

Writing

Machine Learning with TensorFlow (Hanbit Media)

REVIEWER

- Reviewed Korean-translated book of "Machine Learning with TensorFlow", written by Nishant Shukla

Seoul, S.Korea

Feb. 2019

O'Reilly Articles (Hanbit Media)

TRANSLATOR

- Translated several articles from O'Reilly Media

Seoul, S.Korea

Jul. 2016 - Present

Scheduling for Better Energy Efficiency on Many-core Chips

AUTHOR

- 19th Workshop on Job Scheduling Strategies for Parallel Processing (JSSPP)

Hyderabad, India

2015

Education

Seoul National University

M.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

- Topic: Manycore-based efficient Power Management Framework
- Thesis: Hierarchical Power Management Framework on Manycore systems using OS Migration Techniques
- Advisor: Prof. Bernhard Egger

Seoul, S.Korea

Mar. 2013 - Feb. 2015

Chung-Ang University

B.S. IN ELECTRICAL AND ELECTRONICS ENGINEERING

Seoul, S.Korea

Mar. 2006 - Feb. 2013

Extracurricular Activity

Coursera

GLOBAL TRANSLATOR

- Contributed to translate English lecture to Korean language
- Translated at least 15,000 words at high quality

USA

2016

Skills

Programming Languages C, Python, R, Julia, Markdown, LaTeX
Korean, English

References

Professor, Bernhard Egger (Seoul National University)

S.Korea

Professor, Bhiksha Ramakrishnan (Carnegie Mellon University)

USA