

JONG WOOK KIM

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Employment

New York University

RESEARCH ASSISTANT

New York, NY

Apr 2016 - Present

- Analyzing and improving the collaborative filtering algorithms for music recommendation

Kakao Corporation

RECOMMENDER SYSTEM ENGINEER & DATA SCIENTIST

Seongnam, S. Korea

Jun 2014 - Aug 2015

- Developed Apache Spark applications for the company's recommender systems
- Developed a distributed API server in Scala that delivers personalized recommendations
- Designed and developed a distributed and fault-tolerant stream processing framework
- Leveraged OpenTSDB and Grafana to record and visualize real-time statistics

NCSOFT Corporation

GAME SERVER PLATFORM DEVELOPER

Seoul & Seongnam, S. Korea

Aug 2012 - Jun 2014

- Designed and developed a distributed server platform for Lineage Eternal
- Built a cross-platform logging library in C++ that resembles SLF4j, to be used in Lineage Eternal's game servers

NCSOFT Corporation

GAME DEVELOPER INTERN

Seoul, S. Korea

May 2011 - Aug 2011

- Developed the pathfinding engine of Lineage Eternal, used in both the game client and server, built on top of Havok AI

Education

New York University

PH.D. (ANTICIPATED MAY 2019) IN MUSIC TECHNOLOGY, ADVISOR: JUAN PABLO BELLO, GPA 3.76/4.00

New York, NY

Sep 2011 - May 2012, Sep 2015 - Present

University of Michigan

M.S. IN COMPUTER SCIENCE AND ENGINEERING, ADVISOR: GEORG ESSL, GPA 7.76/9.00

Ann Arbor, MI

Sep 2009 - Apr 2011

Korea Advanced Institute of Science and Technology

B.S. IN ELECTRICAL ENGINEERING (GPA 3.97/4.30) WITH A MINOR IN MATHEMATICAL SCIENCES (GPA 4.03/4.30), OVERALL 3.83/4.30

Daejeon, S. Korea

Sep 2006 - May 2009

Presentations

Packaging Applications for Deployment

SPARK SUMMIT EAST 2017

Boston, MA

Scheduled Feb 2017

MusicProcessing.jl: Music Information Retrieval in Julia

JULIACON 2016

Cambridge, MA

Jun 2016

Building High Performance Servers with Rx and Functional Reactive Programming

NEXON DEVELOPER CONFERENCE 2014

Seongnam, S. Korea

May 2014

Honors & Awards

2010 **Samsung Scholarship** USD 50,000 per year, for 5 years of the Ph.D. program

2009 **Kwanjeong Scholarship** USD 50,000 per year, for 2 years of the M.S. program

Miscellaneous

Programming

Scala, Python, Java, C/C++ professionally, and Julia, ObjC, PHP, JS, TS, Matlab for personal/research projects
Apache S2Graph committer; contributed to Hazelcast, LightFM, and other open source projects

Coursera

Intro to Functional Analysis, Principles of Reactive Programming, Functional Programming Principles in Scala

Languages

English, Korean (native), Japanese (limited working proficiency)