

## EXPERIENCE

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- **Amazon** Vancouver, Canada  
*Software Developer Engineer* Sep. 2021 – Present
- **NAVER Corp.** Seongnam, South Korea  
*Software Engineer, Big Data & AI Platform* Sep. 2018 – Sep. 2021
  - **DevOps Logiss**: Logiss is an ELK stack for large scale search logs. It consisted with six clusters of over 1000 nodes deployed in Korea/Japan region.
  - **Logstash performance optimization**: Testing and profiling Logstash on log-pipelining system. More than 100% improvement on throughput by adjusting GC parameters and Grok timeout.
- **NEXON Korea** Seongnam, South Korea  
*Software Engineer, Data Infrastructure Development Team, Intelligence Labs* Jan. 2017 - Aug. 2018
  - **Parquet file converter**: Converts JSON file to Apache Parquet format. This app also do schema management and automatic schema updating system. Fully dockerized and auto-scaled on AWS.
  - **Fluentd optimization**: Optimized Fluentd on log-pipelining system by profiling and adjusting the app/kernel parameters. With RSS(Receive Side Scheduling), About 30% improvement on throughput is achieved
  - **Fluentd TCP monitoring plugin**: Developed monitoring plugin which shows TCP connection metric with event count per source address
  - **Building Elasticsearch ingest pipeline**: Designed Elasticsearch pipeline and built on AWS with Kinesis and EC2.
- **ITRI (Industrial Technology Research Institute)** Hsinchu, Taiwan  
*Intern, CCMA (Cloud computing Center for Mobile Application)* Jul. 2014 - Aug. 2014
  - **Auto-ballooning**: Implemented auto-ballooning in QEMU-KVM. Performance testing was also completed.

## EDUCATION

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- **Ulsan National Institute of Science and Technology (UNIST)** Ulsan, South Korea  
*M.S. in Computer Science and Engineering (CSE)* Mar. 2015 – Feb. 2017
- **Ulsan National Institute of Science and Technology (UNIST)** Ulsan, South Korea  
*B.S. in Computer Science and Engineering (CSE)* Mar. 2011 – Feb. 2015

## PUBLICATIONS

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- **Jaewon Kwak**, Eunji Hwang, Tae-kyung Yoo, Beomseok Nam, and Youngri Choi "In-memory Caching Orchestration for Hadoop", In Proceedings of the 16th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (**CCGRID 2016**)
- Youngmoon Eom, Jinwoong Kim, Deukyeon Hwang, **Jaewon Kwak**, Minho Shin, Beomseok Nam "Improving Multi-dimensional Query Processing with Data Migration in Distributed Cache Infrastructure", 21st IEEE International Conference on High Performance Computing (**HiPC 2014**)

## AWARDS

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- *Finalist*, HPCAC-ISC 2014 Student Cluster Challenge Jun. 2014
- *Finalist*, Asia student Supercomputing Challenge Apr. 2014
- *Finalist*, Asia student Supercomputing Challenge Apr. 2013