Jaewon Kwak

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EXPERIENCE

- **Amazon** Vancouver, Canada
  Software Development 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 dockerzied 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

- **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

- **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

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