

Seokchan Ahn

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EDUCATION

University of California, Irvine

Sep 2021 – Present

M.S. in Computer Science

Irvine, CA

- Expected Coursework: Machine Learning, NLP, Computer Networks, Data Management
- Scholarship: Korean National Graduate Scholarship for Studying Abroad, \$40,000/year, 2021-2023

Seoul National University

Aug 2018

B.S. in Computer Science and Engineering; B.B.A. (Dual Degree)

Seoul, Korea

- Thesis: Improving Natural Language Reading Performance with Extended Skim-RNNs

WORK EXPERIENCE

Samsung Research, Samsung Electronics

Jul 2018 – Jul 2021

Software Engineer at Neural Machine Translation Team, Natural Language Processing Lab

Seoul, Korea

- **Corpus Manager:** Built a data management tool using Python that automates preprocessing process and enables the experiments on data reproducible, leading to a 50% increase in efficiency
- **Text Translation Service:** Trained text translation models using a framework in C++ and deployed the models through docker containers with a latency of 200ms or less
- **Simultaneous Translation:** Devised a novel method to generate simultaneous translation style sentences, which achieved an 8% improvement in translation performance
- **Multi-node Training:** Enabled model training using up to 64 GPUs and 8 times bigger batch size by fixing a multi-node training bug in PyTorch
- **Speech Translation:** Applied a dual-decoder transformer model for speech translation, which improved the translation performance by 6.6%

Korean National Police Agency

Jan 2014 – Oct 2015

Software Developer

Seoul, Korea

- **Security Equipment Management System:** Led the development and maintenance of a web-based ERP system using LAMP (Linux, Apache HTTP, MySQL, PHP) stack, which is used in 1,731 offices
- **Mobile Statute Book:** Developed a statute book application for police using the Korean Ministry of Justice APIs; Downloaded 100+ times and rated 4.5+

PROJECTS

- **Google Summer of Code 2017:** As a participant with the Apache REEF project, designed and implemented a node labeling API for cluster resource managers such as YARN and Mesos
- **Messenger App for Classmates:** Developed an Android messenger app for classmates using Firebase
- **Indoor Positioning Cart:** Orchestrated several sensors to position a cart indoors using C++ and Python; Won \$5,000 at 2016 Samsung Electronics IoT Innovation Challenge
- **Data Transfer through Camera:** Implemented a Java Android app that can transfer files through a series of QR codes; Awarded \$5,000 at 2015 LG CNS IoT Hackathon
- **IoT-powered Gym:** Built a web-based system using LAMP stack that automates logging workouts with ultrasonic distance sensors; Received \$3,000 at 2014 LG CNS IoT Hackathon

OTHER

- **Programming Language:** Python, C++, Java, Javascript, SQL, PHP
- **Web Development:** Apache HTTP, MySQL, HTML, CSS, Laravel, Node.js
- **Other:** Linux, Docker, Kubernetes / Git / Spark, Hadoop / Android