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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in Computer Science; GPA: 4.0/4.0

Jan. 2019 - Dec. 2020

Kyungpook National University

Daegu, South Korea

Bachelor of Engineering in Electronics; GPA: 3.3/4.0

Mar. 2009 - Feb. 2016

Professional Experience

Incheon International Airport Corporation

Incheon, South Korea

Software Engineer

Mar 2024 - Present

- o JetBuddy Aviation Community Platform: Designed and developed an aviation community platform MVP from ideation to implementation. Led full-stack development using Flutter/Dart, implemented core features including user authentication, community interactions, and real-time updates.
- o Passenger Flow Analysis System: Developed and optimized predictive models for passenger flow, improving system time complexity from O(n) to $O(\log n)$.

Incheon International Airport Corporation

Incheon, South Korea

Dec 2015 - Present

Electrical Engineer

• Surface Movement Guidance and Control System (SMGCS): Maintained and optimized the airport's SMGCS for safety compliance and operational efficiency. Conducted regular system assessments and troubleshooting to enhance reliability, resulting in a 77% reduction in aircraft runway incursions.

Publication

• Revisiting Pretraining with Adapters

Seungwon Kim, Alex Shum, Nathan Susanj, Jonathan Hilgart.

Accepted at ACL 2021 Representation Learning for NLP Workshop. Best Paper Award

• Using Pre-Trained Transformer for Better Lay Summarization Seungwon Kim

Accepted at EMNLP 2020 Scholarly Document Processing Workshop

Projects

Computational Linguistics Lay Summary Challenge 2020

May - Aug 2020

https://competitions.codalab.org/competitions/25516

• Designed and implemented lay summarization models for scholarly documents using Pytorch, with a focus on extractive, abstractive summarization and proposed readability metrics. Achieved 2nd rank out of 8 participants in the Computational Linguistics Lay Summarization Challenge 2020.

Neurips 2019 Reproducibility Challenge

Nov - Dec 2019

https://github.com/seungwon1/BEAR-QL

Report: https://openreview.net/forum?id=S1lXO6cf6S

o Implemented BEAR (Off-policy Q-Learning via Bootstrapping Error Reduction, Kumar et, al. 2019) algorithms from scratch using pure Tensorflow. Reproduced and performed all the experiments in Kumar et, al. 2019 and wrote the reproducibility report for the comparison.

Programming Skills

Languages: Python, C++, Dart

Backend: Flask, FastAPI, SQL, MySQL, PostgreSQL

Mobile/Frontend: Flutter

ML/AI: PyTorch, TensorFlow, PEFT

DevOps-Tools: Git. Docker

Competitive Programming: Meta Hacker Cup 2023 Round 2 (Rank 743 out of 20,000+, Top 3.7% globally)