

Songha Ban

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EXPERIENCE

AI Spera — *Software Engineer*

03/2018 - PRESENT

- Developed several data collectors and analyzers
- Developed a scoring algorithm for malicious IP detection
- Developed parts of FraudAccount, which tells if a given phone number or bank account is suspected for fraudulent use
- Was in charge of backend development with AWS Services including API Gateway, Lambda, DynamoDB, S3, CloudWatch, and CloudTrail.
- Developed parts of a security platform such as DarkWeb tracking and port scanning

Surromind Robotics — *Software Engineer Intern*

07/2017 - 02/2018

- Developed an Attributes Extractor, a core training part of Smart Dialogue agent in chatbot to extract relevant queries from input message, using co-occurrence Hyper-Networks
- Preprocessed data for QA(Question-Answering) engine development and analyzed the results.

EDUCATION

Tilburg University — *B.S., Cognitive Science & Artificial Intelligence*

08/2018 - present (Expected 08/2021)

New York University Shanghai — *B.S., Computer Science*

08/2015 - 05/2017 (completed 2 years)

Honors: Dean's List for Academic Year (2015-2016)

PROJECTS

Dancing AI — *Bachelor Thesis Project*

- Developed a GAN framework to generate dance from music
- Improved performance with music feature generator that regenerates encoded music features from generated dance

Texcellence — *Software Engineering Project*

- Developed an AI-based meeting secretary
- Used OpenNMT for the translation model.
- Deployed the backend on AWS EC2 and used ROUTE53 to link a domain.

PISA — *Jacobs Hack*

- Used DeepLab model for semantic segmentation of humans, and partial convolutions for image inpainting

Social Touch Classification

- Used SRP and CNN to extract features from the Corpus of Social Touch (CoST) and classify gestures.
- Experimented with different algorithms and deep learning models such as PCA, Random Forest, AutoEncoder, and LSTM

AlbaLaw — *NYU Social Entrepreneurship Program*

- Developed a labor law consultant bot for South Korean workers
- Developed a chatbot and QA system in it

InstaBoost — *Machine Learning Project*

- Developed an Instagram like predictor by analyzing images, concepts, and user information

SKILLS

Working Knowledge:

Python, Java, SQL

Basic Knowledge:

C/C++, Javascript

Machine/Deep Learning:

PyTorch, Tensorflow, Keras, Scikit-Learn

Cloud: AWS

AWARDS

Korea Computer Congress 2020 Undergraduate Research Competition

[2nd place]

Korean Institute of Information
Scientists and Engineers

JacobsHack 2019

[Winner selected by
domain.com]

Major League Hacking

Changemaker Challenge 2017

[Seed Grant Winner]

NYU Social Entrepreneurship
Program

Korea Software Conference 2017 Undergraduate Research Competition

[1st place]

Korean Institute of Information
Scientists and Engineers

PUBLICATIONS

S. Ban & B.-H. Kim (2017).

Unsupervised Human
Segmentation with Cycle
Consistent Adversarial
Networks. Proceedings of
Korea Software Conference, 12.
1992-1994.

S. Ban, N. Doan, R. Kole, M.

Zeegers, G.Kuscu. (2020).
Automatic Feature Extraction
for Social Touch Classification.
Proceedings of Korea
Computer Congress, 1522-1524