

Jiun Bae

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I'm a machine learning engineer and interested in solving real-world problems.

EDUCATION

Hanyang University

M.S. in Computer Science

Seoul, Korea

Mar. 2019 – Feb. 2021

Hanyang University

B.S. in Computer Science

Seoul, Korea

Mar. 2015 – Feb. 2019

Yonsei University, Mirae Campus

B.S. in Computer Engineering, Withdrawal

Wonju, Korea

Mar. 2014 – Aug. 2014

EXPERIENCE

NCSoft

Machine Learning Engineer, Technical Research Personnel

- Deep Learning based Facial Animation Generation

Game AI Lab. Motion AI

Feb. 2021 –

Naver

Machine Learning Engineer, Intern

- Depth estimation in multi-cam video

Clova

Jul. 2020 – Aug. 2020

Naver Webtoon

Machine Learning Engineer, Intern

- Develop annotation and data management tool for webtoon
- Visual QA Workshop ICCV2019 Submission

Research

Sep. 2018 – Feb. 2019

Computer Vision Lab.

Research Intern

- Multi-object tracking research

Hanyang University

Sep. 2017 – Aug. 2018

Mapianist

Intern

- Optical music sheet recognition and Android app programming

Jul. 2017 – Aug. 2018

SW Maestro 7th

Certification

- DeepCheck: Face detection attendance check service
- Memento: Automatic magazine creation service

Mentee

Jul. 2017 – Aug. 2018

PUBLICATIONS

- [1] Jiun Bae and Jongwoo Lim. "Object detection in fisheye lens environment". In: *Image Processing and Image Understanding* 32nd Workshop (2020).
- [2] Gitaek Kwon, Jiun Bae, and Jongwoo Lim. "Object counting using object detection and re-identification in video sequence". In: *Image Processing and Image Understanding* 32nd Workshop (2020).
- [3] Jongbin Ryu, Jiun Bae, and Jongwoo Lim. "Collaborative Training of Balanced Random Forests for Open Set Domain Adaptation". In: *CoRR* abs/2002.03642 (2020). arXiv: 2002.03642.
- [4] Jiun Bae. "Dilated warping convolution for object detection in fisheye". MA thesis. Hanyang University, 2021.

PROJECTS

- Mono-depth estimation with camera parameter
– Depth estimation by structure from motion using camera parameters
Naver Clova, Jul. 2020 – Aug. 2020
- Fisheye object detection and tracking
– Object detection and tracking in large FOV fisheye lens
– Export using LibTorch C++ and quantization for embedded device
CVLab, Jun. 2019 – Feb. 2020
- Webtoon Annotation Tool
– Webpage based 2D bounding box and tag annotation tool
– Manage dataset model with various custom query types
Naver Webtoon, Sep. 2018 – Feb. 2019
- Visual QA workshop paper
– Implement multi-modal network for baseline of visual QA tasks
Naver Webtoon, Sep. 2018 – Feb. 2019
- MariaDB Scalable Lock Manager
– Improved lock manager to work without locks
– Reusable object pool with garbage collector
ITE4065 at Hanyang University, 2018
- Memento: all information about that person
– Scalable crawling service for new and web documents
– Word vector embedding and clustering continuous data
– Named entity recognition, Emotion recognition and Morphological analysis
SW Maestro, 2017
- DeepCheck: Deep learning-based face recognition attendance check
– YOLO based face detection model enhancement
– React Native app and python flask API server
SW Maestro, 2017
- CS231n KR Translate
– English to Korean translation project for the notes and assignments of CS231n, Stanford
contribution, 2015

SCHOLARSHIPS AND AWARDS

- ACM ICPC 16th place
2016
- Top start-up certification SW Maestro 7th
2017
- Google Machine Learning Challenge Korea 5th place
2017

TEACHING

- **Teaching Assistant**, Advanced Computer Vision
– Samsung System LSI
– Samsung Advanced Institute of Technology
– Samsung Human Resource Development Institute
2019 – 2020
- **Teaching Assistant** at Hanyang University
– Creative Software Programming (ITE1015)
– Computer Software Capstone PBL, Deep Learning for Computer Vision
2019 – 2020