YEJIN JEON

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EDUCATION

Ewha Womans University **March 2017 – Current**
Bachelor of Science – Double Major *Seoul, Korea*
Computer Science/Mechanical and Biomedical Engineering (GPA: 4.11/4.5)

- **Scholarship**: Received scholarship for academic excellence for 1 semester (Spring 2017)
- **Relevant Coursework**: Operating Systems, Software Engineering, Cloud Computing, Computer Algorithms, Database, System Software and Labs, Pattern Recognition and Machine Learning, Statistical Learning Theory, Medical Image Processing

EXPERIENCE

Tanker Fund Inc. **March 2021 – June 2021**
Software Engineer Intern *Seoul, Korea*

- Worked to recognize texts sequentially in real-estate related documents using image processing and parsing
- Developed captcha solving API using deep learning algorithm, contributing to a 50% increase in success rate
- Collaborated with the development team to integrate codes using Docker and Github & Git
- Improved the performance of machine learning algorithm for real estate price prediction by analyzing data
- Proposed a business of human resource assignment system using reinforcement learning to IBK (Industrial Bank of Korea)

Quantitative Imaging & Informatics Lab in Korea Univ. **May 2020 – September 2020**
Research Intern *Seoul, Korea*

- Conducted research on developing 3-D multitask deep neural networks for generating collateral imaging from MRI perfusion
- Implemented MRI processing knowledge using python to preprocess raw MRI images and enhance the performance of algorithm

Electronics and Telecommunications Research Institute (ETRI) **July 2019 – August 2019**
Research Intern *Daejeon, Korea*

- Designed and 3D-printed an experimental phantom
- Participated in AI system research that detects smuggling and dangerous goods in X-ray scanner images
- Developed masking algorithm to segment composite swords in X-ray container images using ImageJ
- Trained and tested various object detection deep-learning algorithms using Tensorflow

Artificial Intelligence-driven Biomedical Imaging Lab in Ewha Univ. **March 2018 – July 2019**
Research Intern *Seoul, Korea*

- Trained and tested deep learning algorithms for classification and object detection
- Led project on automated lesion detection in wireless capsule endoscopy, and gave oral presentation at IFMIA 2019

PROJECTS

Pill Recognition and Information Provision Android App. **March 2020 – December 2020**

- Developed deep learning algorithm which detects pills on images, and detects & recognizes texts on pills

AI Stroke Rehabilitation Exercise Assistant Smart-Mirror **September 2020 – December 2020**

- Implemented the pose estimation model to be executed on the Raspberry pi and Intel neural stick
- Created a web service that allows users to simulate and visualizes outcomes of exercising using Django, Html, CSS, Javascript

CONFERENCE PAPERS

- H.L. Le, **Y. Jeon**, H.G. Roh, H.J. Kim, and J.T. Kwak. "3-D multitask deep neural networks for collateral imaging from dynamic susceptibility contrast-enhanced magnetic resonance perfusion." Medical Imaging 2021: Computer-Aided Diagnosis, 2021.
- S.H. Son, **Y. Jeon**, S.H. Bae, and S.J. Hwang. "A pill recognition and information provision system using a identification mark recognition model of pill image taken with a smartphone." Korea Software Congress 2020 of Korean Institute of Information Scientists and Engineers (KIISE), 2020.
- **Y. Jeon**, E. Cho, S. Moon, S.H. Chae, and J.H. Choi. "Deep convolutional neural network-based automated lesion detection in wireless capsule endoscopy." International Forum on Medical Imaging in Asia, 2019.

AWARDS

- Grand Prize, Undergraduate capstone design conference in department of mechanical and biomedical engineering (12/2020)
- Top Prize out of 30 teams, SW start-up competition in Ewha Womans University (11/2020)

SKILLS

- **Programming Languages**: C, Java, Html, CSS, Javascript, Proficient in Python
- **Others**: Django, Tensorflow, Pytorch, Git & Github, Docker, Linux