JUNHYUN LEE

The Engineer

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github *linkedin* *blog* wechat: Ant_LJH

TECHNICAL SKILLS

- **Deep Learning, BioMedical Data Mining, Signal Processing, Web programming, Cell culture**
- **MATLAB, python(TensorFlow, Pytorch, Django), HTML & CSS**

PROJECTS

P-HIS *national project Website* AUG 2018 - present

- Performed precedent study for personalized hospital information system

Application of Deep Learning in Medical Image analysis *laboratory project* DEC 2017 - present

- Developed labelling tool
- Performed object detection for white blood cell microscopic image
- Implemented medical image segmentation

Clinical Decision Support System for Depression *national project Website* FEB 2018 -AUG 2018

- Performed precedent study for clinical decision support system about deep learning
- Developed the web server for deep learning model inference API

Fabrication of Elastic Electrode *laboratory project Website* DEC 2015 -JUL 2016

- Fabricated composite of carbon nanotube and polydimethylsiloxane
- Performed toxicity test of electrode with HaCaT cell line

ECG Authentication System *personal project Website* DEC 2015 -JUL 2016

- Developed of wireless authentication system using ECG(ElectroCardioGram)
- Fabricated the elastic electrode with carbon nanotube and polydimethylsiloxane
- Designed analog signal processing circuit and DAQ
- Developed bluetooth communication, digital signal processing and GUI

KIOSK Production for Reading Room *volunteer project Website* SEPT 2015 -JUN 2016

- Developed the programs for generation of personal barcode and barcode reader
- Developed the KIOSK program for reading room in college

EXPERIENCE

Industry-Academia Collaboration Foundation *Seoul, Korea* JUN 2017 - FEB 2018

Staff (Team leader: Prof. Jaewoo Kang)

- Big data scientist human resource training team in national project "Brain Korea 21 PLUS", Korea Univ.

Intelligent Bio-MEMS Laboratory *Seoul, Korea* DEC 2015 - JUN 2016

Research Intern (Advisor: Prof. Sanghoon Lee, Korea University)

- Medical instrumentation electrode using MEMS technology
- Composite of carbon nanotube and polydimethylsiloxane
- Application of medical instrumentation electrode

EDUCATION

Master's degree in **Computer Engineering** at **Korea University** *Seoul* 2018 - present

- Data Mining & Information Systems Laboratory
- Main research domain : Biomedical data mining, computer vision

Bachelor's degree in **Biomedical Engineering** at **Korea University** *Seoul* 2011 - 2017

- Intelligent Bio-MEMS Laboratory
- Main research domain : Biomedical instrumentation, MEMS technology

SCHOLARSHIP

NATIONAL SCIENCE SCHOLARSHIP 2nd Semester, 2016

WORK-STUDY SCHOLARSHIP 2nd Semester, 2016

- Scholarship for honor student researcher 1st Semester, 2016

HONORS SCHOLARSHIP 2nd Semester, 2015

KU DREAM SCHOLARSHIP 2nd Semester, 2011

HONORS

Semester High Honors 2nd Semester, 2016

1st Semester, 2016

2nd Semester, 2015

1st Semester, 2015

PATENT

[PCT] Method for preparing conductive polymer composite and conductive polymer composite prepared therefrom Application

[KOREA] Conductive polymer composite Registration

LANGUAGES

Korean Native

English Casual

ARTICLE

Korean Post of TensorFlow tutorial

Korean Post of CS294 Reinforcement Learning, Fall semester, 2018

Korean Post of Building Github Page with Jekyll