

Education

Purdue University West Lafayette, IN, USA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Aug. 2015 - May. 2018

- · Cumulative GPA: 3.74 / 4.00, Dean's List: All semesters
- Relevant Courses: Deep Learning in Computer Vision(A+), Tensors in Deep Learning(A+), Deep Learning for Prediction(A+), Data Structures And Algorithms(A), Analysis Of Algorithm(A), Image Processing In App(A)

Work Experience

SOFTWARE ENGINEER INTERN [LINK]

Headquarters and Headquarters Battalion, Eighth Army, U.S. Army

USAG Humphreys, S.Korea

INTERPRETER, CORPORAL

Nov. 2018 - Jul. 2020

Served as an interpreter for Group Commander as a member of Korean Augmentation to the United States Army.

Binded

San Francisco, USA Jun. 2017 - Aug. 2017

• Implemented RESTful API benchmark server using Docker, Flask, ElasticSearch and CircleCI.

- · Built RESTful API server for auto copyright registration system through Office of Copyright using Docker and Flask.
- Crawled all 5M copyright records from Office of Copyright and analyzed its trends using postgreSQL and Python3.

Dr.Kitchen Seoul, S.Korea **BACK-END SOFTWARE ENGINEER** Jun. 2016 - Aug. 2016

- Designed all database schemes and held meetings to collect required functions from each department with A/B test from users
- Implemented ordering, shipping tracking, customer service system and Payment Gateway API server using Django, postgreSQL and AWS

HelloCoach Berlin, Germany

SOFTWARE ENGINEER INTERN

- Implemented Invitation function and automated testing scripts in hybrid mobile application using Cordova, Ionic and Angular JS
- · Built Language Translation module to provide service in different countries

Research Experience

Cloud Computing, Machine Learning, And Network Research Lab

Purdue University

Jan. 2016 - May. 2016

Undergraduate Research Assistant (Professor Aggarwal Vaneet)

Feb. 2017 - July. 2019

- Conducted experiments to collect Photoplethysmography(PPG) signals and videos from subjects using attached sensors
- Modified facial feature algorithm in DeepFace to get extra landmarks using Python3 and OpenCV
- Implemented algorithm to extract peaks in custom range of PPG signals
- Created deep neural network by tuning parameters with Grid Search in Tensorflow and Keras to get 98% accuracy with GPU

Applied Optics Lab Purdue University

UNDERGRADUATE RESEARCH ASSISTANT (PROFESSOR EUIWON BAE)

Aug. 2016 - Present

- · Built model to classify multi-labeled mushrooms using Tensorflow and Keras and deployed model to Android application using TFLite
- · Implemented real-time 2D mobile spectrometer using signal, image processing in Android Application using Java
- Designed lateral flow assay(LFA) Android application using Linear Algebra and image processing, and SQLite
- Developed Android application to get freshness of meat using OpenCV and contour extraction algorithm in Android

Publications

A Computer Vision Approach for Classifying Isometric Grip Force Exertion Levels

HAMED ASADI, GUOYANG ZHOU, JAE JOONG LEE, VANEET AGGARWAL, DENNY YU

2020

· Forthcoming and accepted to Ergonomics

Smartphone-based lateral flow imaging system for detection of food-borne bacteria

Youngkee Jung, Yoojung Heo, Jae Joong Lee, Amanda Deering, and Euiwon Bae

2019

Journal of Microbiological Methods, Article in Press, [doi:10.1016/j.mimet.2019.105800]

Skills

DevOps AWS, Docker, CircleCI, Github

Back-end Django, Flask, Node.js

Front-end React.js, Vue.js

Programming Python3, Java, Android, Keras, Tensorflow, JavaScript

Languages Korean, English

LEE, JAE JOONG · RESUME MARCH 2, 2020