Yunbin Chang

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Research Interest

GAN, Super Resolution, Multi Modal, Computer Vision, Optimization

Education

Hansung University, Seoul, South Korea *March 2019-Present*
Undergraduate student in Computer Science and Engineering *Expected to graduate early in August 2024*

Honors: GPA: 4.24/4.5 (Major GPA: 4.43)
국가우수장학금(이공계), 전액장학 (3 학년 1 학기 ~ 졸업)
최우수한성인재장학금, 등록금 70% (3 학년 1 학기) - 학부 및 계열별 최우수
- 국가우수장학금 수혜 후 반환
최우수한성인재장학금, 등록금 70% (2 학년 2 학기 - 학부 및 계열별 최우수)
우수한성역량장학금, 등록금 50% (2 학년 1 학기)
우수한성역량장학금, 등록금 30% (1 학년 2 학기)
소프트웨어 특기자 전형 입학

Work Experience

AML Lab. Hansung University, Seoul *May 2023–Present*
Undergraduate Researcher

- Researching a new framework for data augmentation of high-resolution images using GANs
- Presented a poster about my research at ISMP 2023 and am currently developing it into a full paper.
- Actively involved in a semiconductor package machine vision inspection project

STAFACT INC., Seoul *June 2022–June 2023*
Developer

- Contributed 100% to the development of RESTful API and databases of drop shipping platform alone using node.js, express and nest.js.
- Designed, built, and operated the server architecture, ensuring smooth operation and high availability using set of AWS EC2, S3, LB, RDS, ElastiCache and Nginx.
- Contributed more than 30% to the front-end development based on the number of commits using Nuxt.
- Developed a supply chain management system and integrated it with the existing services.

UNITED STATES FORCES KOREA, Camp Humphreys *December 2020–June 2022*
KATUSA, J1 Data Management

- Maintained the database of more than 60,000 soldiers and their dependents, ensuring its reliable operation.
- Conducted data management and analysis, including generating strength reports and tracking violations.
- Provided necessary data to support USFK decision-making through database queries.
- Provided direct support for communication between the ROK-US alliance, including translation services.

Publications and Presentations

International Conference

[1] **Yunbin Chang**, Wonyong Choi, Keejun Han, "A Computationally Optimized Data Augmentation Framework Utilizing cDCGAN for High-Resolution Package Images Acquisition", (Poster Presentation), 21st International Symposium on Microelectronics and Packaging — October 2023

Awards

2021 국방 공공데이터 활용 경진대회, 서비스 개발 부문 최우수 — August 2021

국방부장관상, 국방부

- Developed the model API, web restful API and front-end pages.
- supported the development of a personalized recommendation model through a deep learning model using tf-idf and word2vec.

Developed a platform aimed at promoting systematic self-development for military members. With the help of artificial intelligence, our platform recommends personalized books and certifications, and provides information on pass rates for the certifications. Users can easily keep track of their self-development progress by writing personal development journals using Markdown syntax. The platform also includes a ranking system that encourages healthy competition among users by awarding points.

제 2 회 오픈 인프라 개발 경진대회 (OIDC 2020) — August 2020

최우수상, Mantech

- Developed all the features below including APIs and the model.

Developed a platform that utilizes the Seoul Open API to periodically collect real-time data on the inventory of public rental bikes (Ddareungi). The platform predicts future inventory using an LSTM model, in order to improve the convenience of Ddareungi users.

개방형 클라우드 플랫폼 서비스 개발 공모전 : 제 2 회 국회도서관 해커톤 — December 2019

특별상, 과학기술정보통신부, 국회도서관

- Developed all the features below including APIs and the model.

Developed a location-based platform for sharing real-time information on missing pets, allowing users to check the current status of missing pets. It enables users to share the location where a missing pet was last seen or where a missing pet was found recently.

Certifications

LINUX MASTER II — November 2017
Korean Association for ICT Promotion

Additional Remarks

I hereby certify that the above detailed statements are all true and correct.