Jangyeong Kim

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LINKS

Blog, Github

PROFILE

My engineering interest is mainly on developing novel machine learning models and algorithms, and their real-world applications to computer vision and reinforcement learning domains. Specifically, I've been interested in improving Generative Models to better fit a specific data distribution and developing decision making model for various unknown environment using deep reinforcement learning

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EDUCATION

Mar 2017 — Present

BS in Computer Science and Engineering, Korea University
Seoul, Korea

- GPA: 4.13/4.5

EXPERIENCE

Nov 2021 — Dec 2022

BiDi AI
Seoul, Korea

CEO & AI Engineer

- Established a company and attracted an Seed-Round Investment($100K) from Primer.
- As an AI engineer, newly devised a Hyper-network based inversion method for Generative Model to process real-world selfie data and optimized AI model for real-time servicing
- Designed and developed AI functions that are the core of the service, such as AI face editing and AI face analysis, and actually served more than 10K users. (Max MAU was 6,000)

(Mentor: Dokyun Kwon)

Nov 2020 — May 2021

AI and Mobility(AIM) Laboratory, Korea University
Seoul, Korea

Research Intern
- *Optimal Auction Algorithm for auto-driving through Deep-Learning*
  - Held seminars to understand papers in the field of economics to apply them to AI
  - Implemented a scratch theory into code lines. Applied action and reward policy to model
- *Integrated Perception Technology Developments for Public Safety Platforms*
  - Led research for estimation of the present appearance of missing children, using GAN
  - Development of a real-time anomaly detection system to detect kidnapping

(Advisor: Joongheon Kim)

Oct 2020 — Feb 2021

System Intelligence Group, Korea University
Seoul, Korea

Research Intern

- *Implementation of a deep learning module for motion estimation (motion analysis)*
  - Led experiment of LRCN and Two-Stream Model for action recognition in medical video data
  - Analyzed rehabilitation training videos of paralyzed patients to measure recovery task.
- *Implementation of a deep learning module that segments the part of interest in an image*
  - Developed a function to accurately segment a region of interest in medical images such as ultrasound for diagnosis
  - Improved task performance by adopting DeepLabv3+ instead of Unet

(Advisor: SeungJun Baek)

Aug 2018 — Mar 2020

BCTP(Battle Command Training Program Group), Korea Military
Daejeon, Korea

Server & Network Operator

- Infrastructure management
  - In charge of monitoring servers and networks for War-Games and controlling large-scale traffic.
  - Participation in large-scale physical infrastructure expansion and new network structure design.
- War-Game Support
  - Technical cooperation with the US military for UFG training (network support, server integration)
  - Assisted in communication between Korean and US military

HONORS AND AWARDS

Feb 2022	**Grand Prize, Graduation Capstone Project at Korea University**
	Natural Hairstyle Editing for Korean Facial Data using GAN and its application
Dec 2021	**Top 10% Certification at Software Maestro (Top 15 / 180)**
Feb 2021	**Academic Excellence Award (Highest on GPA) at Korea University**
Mar 2018	**1st Place, AI & ML Hackathon at Microsoft Student Partners**
Jul 2017 — Nov 2021	**Dean's List, Korea University Colleage of Informatics**
	2017, 2018, 2020, 2021

EXTRA-CURRICULAR ACTIVITIES

Jan 2022 — Feb 2022   **UC Berkeley BMoE Bootcamp**   Berkeley, CA

Entrepreneurship and Technology Course

- Pitching business plans in front of some Silicon Valley investors
- Building BiDi's global GTM strategy with experts

Mar 2021 — Feb 2022   **Software Maestro (12th)**   Seoul, Korea

AI Engineer

- Led a research project *Natural Hairstyle Editing for korean Facial Data using GAN.*
- Designed ML Pipeline for real-time inference on application.
- Applied a patent *Server for proposing virtual style using AI*
  - Ingyu Sung, <u>Jangyeong Kim</u>, Donghyun Kim
  - Korean patent number: 10-2021-0154849, filed on Nov 11, 2021
- Startup Contest *Unicorn House* entered the final round

Jul 2017 — Aug 2018   **Microsoft Student Partners (MSP)**   Seoul, Korea

Software Engineer

- Conducted evangelism sessions introducing new features of Microsoft Azure
  - *How to build a Node.js based chat service on the Azure Web App*
  - *Deploy Image classification model using Azure Machine Learning*
- Participated as a Korean MSP representative in the Microsoft Imagine Cup Asian finals

SKILLS

SKILLS	(AI) Pytorch, Tensorflow	(Language) C, Python, JS, ...
	(BackEnd) Node.js, Flask	(Etc) AWS, Azure, Docker, ...
	(FrontEnd) React, React Native	

LANGUAGES

LANGUAGES	**Korean**	Native speaker	**English**	Working knowledge