Jihoon **Kim**

AI RESEARCH ENGINEER

Seoul, Republic of Korea

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Work Experience

Cinamon   *Seoul, S.Korea*

AI RESEARCH ENGINEER, AI LEAD   *Oct. 2023 - Present*

- Conduct research on models for Human Scene Interaction and Physics-based Motion Generation
- Integrate LangChain-based LLM pipeline into the product, CineV

AI RESEARCH ENGINEER   *Feb. 2023 - Oct. 2023*

- Research on models for Motion In-betweening, Text-based Motion Generation, and Motion Stylization
- Develop a preprocessor to streamline data processing workflows using Blender
- Design and manage Amazon Mechanical Turk projects for collecting motion-text paired data

KakaoBrain   *Seongnam, S.Korea*

RESEARCH SCIENTIST (INTERNSHIP)   *Feb. 2022 - Aug. 2022*

- Conduct research on generative models in generative model team
- Develop multi-modal generative models based on diffusion techniques

AILYS (Former Solidware)   *Seoul, S.Korea*

SENIOR MACHINE LEARNING SCIENTIST   *Jul. 2018 - Dec. 2020*

- Lead the prototyping of automated unsupervised machine learning software
- Develop and maintain the AutoML solution software *DAVinCI LABS*
- Research and implement machine learning algorithms for various applications
- Provide comprehensive machine learning education for clients

MACHINE LEARNING SCIENTIST   *Sept. 2017 - Jun. 2018*

- Develop and maintain the AutoML solution software *DAVinCI LABS*
- Conduct research on machine learning algorithms for practical applications
- Lead over 10 on-site machine learning projects with both domestic and international clients

Hanwha General Insurance   *Seoul, S.Korea*

CORPORATE LINES PROPERTY AND CASUALTY UNDERWRITER   *Dec. 2015 - Apr. 2017*

- Perform data-driven underwriting for corporate property insurance policies

Education

Korea University   *Seoul, S.Korea*

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE   *Dec. 2020 - Feb. 2023*

- Supervisor: Sungjoon Choi
- Cumulative GPA: 4.38 / 4.50

Hanyang University   *Seoul, S.Korea*

BACHELOR OF SCIENCE IN ELECTRONIC ENGINEERING   *Mar. 2010 - Feb. 2016*

- Cumulative GPA: 4.08 / 4.50, Major GPA: 4.13 / 4.50
- Summa Cum Laude

Drexel University   *Philadelphia, U.S.*

INTERNATIONAL EXCHANGE, ELECTRICAL AND COMPUTER ENGINEERING   *Aug. 2014 - Aug. 2015*

- Cumulative GPA: 3.87 / 4.00
- Dean's list for all enrolled quarters

Publications

FLAME: Free-form Language-based Motion Synthesis & Editing   *AAAI (Oral Presentation)*

JIHOON KIM, JISEOB KIM, SUNGJOON CHOI   *2023*

- *Project Page* | *Paper* | *Video*

Learning Joint Representation of Human Motion and Language   *arXiv*

JIHOON KIM, YOUNGJAE YU, SEUNGYOUN SHIN, TAEHYUN BYUN, SUNGJOON CHOI   *2022*

- *Paper*

Conditional Motion In-betweening
Jihoon Kim, Taehyun Byun, Seungyoun Shin, Jungdam Won, Sungjoon Choi
- *Project Page* | *Paper* | *Video*

Patents

2021	**10-2273868,** Method for applying user intension to unsupervised learning and apparatus therefor	*Korea*
2021	**10-2273867,** Method and apparatus for generating supervised learning model based on unsupervised learning, and method and apparatus for analyzing unsupervised learning model using the supervised learning model	*Korea*
2019	**10-1976689,** Method and apparatus for automatically generating variables for data modeling	*Korea*

Skills

Programming	Python, C++, C#
3D Engine	Unreal, Unity
DevOps	AWS, Docker, CI/CD
Version Control	Git, GitHub, GitLab
Languages	Korean (Native), English (Fluent)

Honors & Awards

2018	**Bronze Award,** Kyobo Insuretech Hackathon, Kyobo Insurance	*Seoul, Korea*
2017	**Bronze Award,** Culture and Tourism Big Data Contest, Korea Culture & Tourism Institute	*Seoul, Korea*
2015	**Gold Prize,** Engineering School Capstone Design Fair, Hanyang University	*Seoul, Korea*
2015	**Gold Prize,** Graduation Project Competition, Hanyang University	*Seoul, Korea*
2014-2015	**Dean's List,** Drexel University	*Philadelphia, U.S.*
2014	**Qualcomm Scholarhsip Program,** Qualcomm Korea	*Seoul, Korea*
2014	**Best Tutor Award,** Engineering Mathematics Tutoring Program, Hanyang University	*Seoul, Korea*
2014-2015	**National Science & Technology Scholarship,** KOSAF	*Seoul, Korea*
2010-2015	**Academic Excellence Award,** Hanyang University	*Seoul, Korea*

Extracurricular Activity

Namu Orchestra *Seoul, Korea*
Violinist, Concert Master *Feb. 2023 - Present*

Drexel University Orchestra *Philadelphia, U.S.*
Violinist *Sept. 2014 - Mar. 2015*

Hanaklang (Hanyang University Amateur Orchestra) *Seoul, Korea*
Violinist *Mar. 2011 - Sept. 2015*