

Jincheol Jung

<https://bik1111.github.io> Google Scholar

INTERESTS	Cloud/Edge Computing, Model-driven resource management, Federated Learning	
EDUCATION	Kyung Hee University	Mar 2022 – Feb 2025
	<i>Undergraduate Student</i>	
	<ul style="list-style-type: none">• Bachelor of Software Convergence• Total GPA of 3.05 / 4.3 (87.8 / 100)	
	National Institute for Lifelong Education (NILE)	Oct 2020 – Feb 2022
	<i>Credit Bank System</i>	
	<ul style="list-style-type: none">• Bachelor of Business Administration• Total GPA of 2.97 / 4.5 (81.89 / 100)	
	Myongji College	Mar 2015 – Jun 2015
	<i>Associate's Degree (Incomplete)</i>	
	<ul style="list-style-type: none">• Department of Theater and Visual Arts• Completed one semester of coursework• Total GPA of 2.97 / 4.5	
PUBLICATIONS	UNDER REVIEW	
	Jincheol Jung, Hongju Jeong, and Eunam Huh. 2024. Federated Learning and RAG Integration: A Scalable Approach for Medical Large Language Models. <i>international conference on artificial intelligence in information and communication (ICAIIIC)</i> . IEEE.	[pdf]
	PUBLISHED	
	Jincheol Jung. 2024. Performance Analysis of Metric-Based Scaling in Kubernetes Environments: A Comparative Study of CPU Utilization and Custom Metric Approaches. <i>Korean Information Processing Society (KIPS)</i> .	[pdf]
	Jincheol Jung, Sungwon Lee. 2024. Performance Comparison Analysis of gRPC and zeroMQ for Efficient Library Selection in Chat Service Development. <i>Korean Institute of Information Scientists and Engineers (KIISE)</i> .	[pdf]
HONORS AND AWARDS	University Innovation Scholarship , Kyung Hee University, 2022	
	Awarded for contributions as undergraduate research assistant	
	SW Ownership , Kyung Hee University, 2023	
	Recognized for excellence in extracurricular software activities	
	1st Place in Google Hardware Hackathon , Google, 2024	
	Achieved 1st place out of 8 teams	
	Excellence Award in Artistic Software Competition , Kyung Hee University, 2023	
	Collaborated with College of Art and Design students and achieved 3rd place out of 20 teams	
	Special Award in SW-centered University Hackathon , National Center of Excellence in Software, 2023	
	Placed 7th and received a special award involving 46 teams from 51 universities	
	Excellent Award in University Student IT Project Alliance Club (UMC) , UMC, 2022	
	Secured 3rd place out of 32 teams	
RESEARCH EXPERIENCE	System Software Laboratory , Korea University	Dec 2023 – Sep 2024
	<i>Research Intern (Adviser: Professor Gyeongsik Yang)</i>	Seoul, Korea
	<ul style="list-style-type: none">• Led project on custom metric-based autoscaling in Kubernetes environments• Participated in project on 6G network systems	
	Reproduced AI-based open-source project in Kubernetes environment	[Link]
	<ul style="list-style-type: none">• Participated in paper reviews related to research topics• Conducted study related to Docker and Kubernetes	[Link] [pdf]

Dec 2022 – Feb 2023

- Extracted and preprocessed human posture and joint data using Azure Kinect DK to analyze patterns of normal and abnormal postures
- Designed and trained neural network model (MLPClassifier) to classify correct and incorrect movements based on motion data
- Facilitated communication between Egyptian postdoctoral researcher and Korean student

Aug 2016 – May 2018

- Served as Squad Leader, overseeing squad members, duty assignments, equipment management

May 2023 – Aug 2023

- Served as Co-Captain in club for students interested in AWS services and cloud technology
- Prepared weekly presentation materials on cloud-related topics and assisted members with hands-on exercises

Aug 2023 – PRESENT

- Shared insights on cloud services, including key concepts and practical examples, with club members
- Organized and participated in IT conference tailored for university students and junior professionals

Jul 2023 – Oct 2023

[pdf]

- Translated ‘Model’ section of LLM Prompt Engineering Guide into Korean to improve accessibility for Korean developers [link][code]
- Prepared a glossary and established guidelines at the initial stage of the translation project to ensure consistency

Sep 2022 – Nov 2022

- Developed back-end systems using Node.js; secured 3rd place out of 32 teams in a project competition
- Led the back-end team, managing tasks related to API development and database system construction, as well as overseeing project schedules and team coordination

Jul 2022 – Jul 2022

[pdf]

- Completed comprehensive Web Developer Training Program focusing on modern web technologies

Gained practical skills in CSS frameworks like Bootstrap, Semantic UI, and Bulma.

Improved JavaScript skills in DOM manipulation and server-side programming with Node.js

Developed full-stack applications using Express and MongoDB

Sep 2023 – Oct 2023

[pdf]

- Gained practical experience in AWS cloud setup and operations
 - Configured cloud environment with AWS Free Tier, including VPC and Bastion host setup
 - Deployed Kubernetes-based EKS environment and launched Nginx services
 - Built EFK (Elasticsearch, Fluentd, Kibana) stack for log collection and monitoring
 - Set up CloudWatch alerts with Slack integration for real-time resource monitoring

Google Cloud Skills Boost

Jul 2023 – Aug 2023

Learner

[Link]

- Completed Kubernetes-focused training on Google Cloud Platform, including Foundations, Workloads, and Production tracks

TECHNICAL SKILLS **Advanced** Python, JavaScript/TypeScript, Docker, Kubernetes, HTML, CSS
 Moderate Node.js, PyTorch, Java, MySQL, MariaDB, Linux
 Novice C

LANGUAGE **English:** IBT TOEFL 81 (MyBest Scores: R: 22, L: 22, S: 20, W: 22)
PROFICIENCY **Korean:** Native

REFERENCES **Euinam Huh**
 Professor
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 Email: johnhuh@khu.ac.kr — <http://www.icnslab.net/#/home>

 Sungwon Lee
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 Department of Software Convergence at Kyung-Hee University
 Email: drsungwon@khu.ac.kr — <http://mobilelab.khu.ac.kr/wordpress/>

 Gyeongsik Yang
 Assistant Professor
 Department of Computer Science and Engineering at Korea University
 Email: g_yang@korea.ac.kr — <https://ss.korea.ac.kr/>