

Jincheol Jung

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

INTERESTS	Cloud/Edge Computing, Intelligent Systems, Federated Learning		
EDUCATION	Kyung Hee University	Mar 2022 – Feb 2025	
	<i>Undergraduate Student</i>	Yongin, Korea	
	<ul style="list-style-type: none">• Bachelor of Science in 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>	Seoul, Korea	
	<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 (Withdrawal)</i>	Seoul, Korea	
	<ul style="list-style-type: none">• Department of Theater and Visual Arts• Completed one semester• GPA: 2.97/4.5		
PUBLICATIONS	ACCEPTED		
	Jincheol Jung, Hongju Jeong, and Euinam Huh. “Federated Learning and RAG Integration: A Scalable Approach for Medical Large Language Models”. In <i>IEEE international conference on artificial intelligence in information and communication (ICAIIIC)</i> , 2025, To Appear [pdf]		
	PUBLISHED		
	Jincheol Jung. “Performance Analysis of Metric-Based Scaling in Kubernetes Environments: A Comparative Study of CPU Utilization and Custom Metric Approaches”. In <i>Annual Conference of the Korean Information Processing Society (ACK)</i> , 2024 [pdf] [video]		
	Jincheol Jung, Sungwon Lee. “Performance Comparison Analysis of gRPC and ZeroMQ for Efficient Library Selection in Chat Service Development”. In <i>KIISE(Korean Institute of Information Scientists and Engineers) Korea Computer Congress (KCC)</i> , 2024 [pdf]		
HONORS AND AWARDS	University Innovation Scholarship , Kyung Hee University, 2022	[pdf]	
	Awarded for contributions as undergraduate research assistant		
	SW Ownership , Kyung Hee University, 2023	[pdf]	
	Recognized for excellence in extracurricular software activities		
	Google Hardware Hackathon , Google Korea, 2024	[pdf]	
	1st Place among 8 teams		
	Excellent Award in Artistic Software Competition , Kyung Hee University, 2023	[pdf]	
	Collaborated with College of Art and Design students; 3rd Place among 20 teams		
	Special Award in SW-centered University Hackathon , National Center of Excellence in Software, 2023	[pdf]	
7th Place among 46 teams from 51 universities; received a special award			
	Excellent Award in University Student IT Project Alliance Club (UMC) , UMC, 2022		
	3rd Place among 32 teams		
RESEARCH EXPERIENCE	System Software Laboratory , Korea University	Dec 2023 – Sep 2024	
	<i>Undergraduate Research Assistant (Adviser: Assistant Professor Gyeongsik Yang)</i>	Seoul, Korea	
	<ul style="list-style-type: none">• Led project on custom metric-based autoscaling in Kubernetes environments• Contributed to 6G network systems project		
	Reproduced AI-based open-source projects in Kubernetes environment		
	<ul style="list-style-type: none">• Delivered presentations on model-based resource allocation systems in cloud environments, edge computing, and split computing.• Conducted study related to Docker and Kubernetes		

Individual In-Depth Study, Kyung Hee University

Sep 2024 – Dec 2024

Research Project (Adviser: Professor Euinam Huh)

Yongin, Korea

- Conducted in-depth research under supervision of advisor faculty member for one semester
- Led project on LLM fine-tuning and RAG system integration in federated learning environment
- Accepted at ICAIIC 2025 conference

Big Data Laboratory, Kyung Hee University

Dec 2022 – Feb 2023

Undergraduate Research Assistant (Adviser: Professor Changho Jihn)

Yongin, Korea

- 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

LEADERSHIP

AWS Cloud Clubs (ACC)

May 2023 – Aug 2023

Regular Member

Yongin, Korea

- Served as Co-Captain in club for students interested in Amazon Web Services (AWS) and cloud technology
- Delivered a presentation on cloud services and facilitated hands-on exercises while assisting members facing difficulties

AWSKRUG University Student Group (AUSG)

Aug 2023 – PRESENT

Regular Member

Seoul, Korea

- Delivered presentations to club members on key concepts and practical examples of cloud services
- Organized and participated in IT conference tailored for university students
- Participated in study groups for database (MySQL) and English learning.

EXTRACURRICULAR
ACTIVITIES

Military Service

Aug 2016 – May 2018

Auxiliary Police

Seoul, Korea

- Led team of auxiliary police officers, overseeing assignments and equipment management

Open Source Contribution Academy (OSSCA)

Jul 2023 – Oct 2023

Mentee

Seoul, Korea

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

National University Student IT Project Alliance Club (UMC)

Sep 2022 – Nov 2022

Regular Member

Seoul, Korea

- Developed back-end systems using Node.js
- Integrated Naver Book Search API and improved query performance by over 30x through Redis caching functionality
- Led back-end team, overseeing API development, database construction, and project scheduling

PROFESSIONAL
TRAINING

Software Development Bootcamp

Jul 2022 – Jul 2022

Trainee

Seoul, Korea

- Completed comprehensive Web Developer Training Program with modern web technologies
- Front-end: HTML5, CSS3, JavaScript, and CSS frameworks (Bootstrap, Semantic UI)
- Back-end: Node.js(Express), MongoDB
- Built full-stack web applications implementing learned technologies

Kyung Hee Group Virtual Company IT/SW Internship Program Jul 2023 – Aug 2023
Mentee Yongin, Korea

- Drafted IT service planning documents and designed web page structures
- Developed a web application using Python and Django [pdf]

IT Job Bootcamp (Comento) Sep 2023 – Oct 2023
Mentee Seoul, Korea

- Hands-on experience with AWS cloud setup and operations
 - Configured AWS Free Tier environment with VPC and Bastion host
 - Deployed Kubernetes-based EKS and launched Nginx services
 - Implemented EFK (Elasticsearch, Fluentd, Kibana) stack for log monitoring and integrated CloudWatch alerts with Slack [link]

Google Cloud Skills Boost Jul 2023 – Aug 2023
Learner Seoul, Korea

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

TECHNICAL SKILLS **Programming Languages** Python, JavaScript, Java, C++, MySQL, MariaDB, HTML, CSS
Frameworks and Tools Docker, Kubernetes, Node.js, PyTorch, Django, SpringBoot

LANGUAGE PROFICIENCY Proficient in **English** and Native in **Korean**

- IBT TOEFL: 81 (Reading: 18, Listening: 22, Speaking: 19, Writing: 22)
- MyBest: 86 (Reading: 22, Listening: 22, Speaking: 20, Writing: 22)

REFERENCES **Gyeongsik Yang**
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Department of Computer Science and Engineering at Korea University
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Sungwon Lee
Professor
Department of Software Convergence at Kyung Hee University
Email: drsungwon@khu.ac.kr — <http://mobilelab.khu.ac.kr/wordpress/>

Euinam Huh
Professor
Department of Computer Science and Engineering at Kyung Hee University
Email: johnhuh@khu.ac.kr — <http://www.icnslab.net/#/home>

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