Jincheol Jung

https://bik1111.github.io/

INTERESTS	Container Vitualization, Cloud Orchestration, Ferderated Learning

EDUCATION

Kyung Hee University   Mar 2022 – Feb 2025
Undergraduate Student
- Bachelor of Science in Software Convergence
- Total GPA of 3.05 / 4.3 (87.8 / 100)

HONORS AND AWARDS

University Innovation Scholarship, Kyung Hee University, 2022

1st Place in Google Hardware Hackathon, Google, 2024
SW Ownership Kyung Hee University, 2023
Excellence Awared in Artistic Software Competition, Kyung Hee University, 2023
Special Award in SW-centered University Hackathon, Korea Information Science Society, 2023
Excellent Award in University MakeUs Challenge(UMC) Hackathon, UMC, 2022

PUBLICATIONS

Jincheol Jung, Sungwon Lee. 2024. Performance Comparison Analysis of gRPC and zeroMQ for Efficient Library Selection in Chat Service Development, *Korean Institute of Information Scientists and Engineers (KIISE)*, pp. 2087–2089.   [pdf] [code]

RESEARCH EXPERIENCE

System Software Laboratory, Korea University   Dec 2023 – Sep 2024
Research Intern (Adviser: Professor Gyeongsik Yang)   Seoul, Korea
- Led project on custom metric-based autoscaling in Kubernetes environments
    Built Custom Metric-Based Autoscaling Environment with Prometheus Adapter and Grafana
    Analyzed Success Rate, 99% tail-latency, Pod count and CPU utilization under traffic load
- Participated in projects on 6G network system
    Reimplemented AR/VR open-source project   [Link]
    Participated in paper reviews related to research topics   [Link] [pdf]
- Conducted study related to Docker and Kubernetes.   [Link]

Big Data Laboratory, Kyung Hee University   Dec 2022 – Feb 2023
Research Intern (Adviser: Changho Jihn)
- Extracted and preprocessed human posture and joint data using Azure Kinect DK for motion tracking enhancement   [code] [Link]
- Facilitated communication between an Egyptian postdoctoral researcher and a Korean student

EXTRACURRICULAR ACTIVITIES

Military Service   Aug 2016 – May 2018
Auxiliary Police, South Korea

AWSKRUG University Student Group (AUSG)   Aug 2023 – Feb 2024
Regular Member
- Presented cloud services with key concepts and practical examples.
- Organized and participated in an IT conference tailored for university students and junior professionals
- Participated in study groups for English and Database

AWS Cloud Club (ACC)   May 2023 – Aug 2023
Regular Member
- Served as Co-Captain in a 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   [pdf]

Open Source Contribution Academy (OSSCA)   Jul 2023 – Oct 2023
Mentee   [pdf]
- Translated the "Model" section of the LLM Prompt Engineering Guide into Korean   [Link]
- Defined translation conventions, including tone, glossary for loanwords, and techniques to avoid literal translation   [code]

University IT Alliance Club (UMC)   Sep 2022 – Nov 2022
Regular Member
- Led the backend-side team, responsible for API design and development, as well as ERD creation
- Collaborated and communicated with a team of 7 members to achieve project goals   [code]

Comento IT Job Bootcamp   Sep 2023 – Oct 2023
Mentee   [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

Comento IT Job Bootcamp   Aug 2022 – Sep 2022
Mentee   [pdf]
- Completed hands-on backend development training
    Set up backend development environment, including GitHub, Eclipse, and MySQL
    Developed API documentation for collaboration between frontend and backend teams
    Built RESTful APIs using Spring Boot and implemented SQL queries for data retrieval
    Consolidated API functions with SQL and Java code

Software Development Bootcamp   Jul 2022 – Jul 2022
Trainee   [pdf] [code]
- Completed a comprehensive Web Developer Training Program focusing on modern web technologies
    Learned HTML5, CSS3, and modern JavaScript syntax for web development
    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

Technical Skiils	**Adavanced** Python, JavaScript, TypeScript, Docker, Kubernetes, HTML, CSS **Moderate** Pytorch, C++, Node.js, SpringBoot(Java), MySQL, MariaDB **Novice** C
Language Proficiency	**English**: Upper-Intermediate (OPIC IH, TOEIC Speaking AL) **Korean**: Native
References	