JAEHO BAE

Bechelor of Computer Science
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EDUCATION

Handing Global University (HGU), Pohang, South Korea   Mar. 2017 ~ Present

Major in AI and Computer Engineering

GPA: 3.08/4.5

ACADEMIC EXPERIENCE

Undergraduate Researcher

1. ISEL (Intelligent Software Engineering Lab), HGU   Jun. 2022 ~ Dec. 2023

PUBLICATIONS

Published or Accepted:

1. Survey on Security Vulnerability Detection Techniques Based on Bytecode Analysis   09. Feb. 2023
   2023 Korea Conference on Software Engineering

Under review or In preparation:

2. ByCoBERT: Vulnerability Prediction Based on Bytecode Pre-trained Model   Decision in Progress
   KIISE KTCP
3. Detecting Security Vulnerabilities Using a GPT Model   Decision in Progress
   KIISE JOK

WORK EXPERIENCE

Teaching Assistant

1. Introduction to Artificial Intelligent Project, HGU   Mar. 2024 ~ Jun. 2024
2. Coding Hour Mentoring, HGU   Mar. 2023 ~ Jun. 2024
3. Java Programming, HGU   Mar. 2023 ~ Dec. 2023
4. Introduction to Computer and Electronic Engineering, HGU   Mar. 2022 ~ Jun. 2022
5. Introduction to Philosophy, HGU   Sep. 2021 ~ Dec. 2021

Teaching Material Development Assiatant

1. System Programming, HGU   Jul. 2024 ~ Sep. 2024

Contribution

1. Korea Unification Bigdata Center (KUBIC), HGU   Nov. 2022 ~ Jun. 2023

LEADERSHIP

General Affairs

Linux Hackers (Computer Science Club), HGU   Mar. 2022 ~ Jun. 2022

President

Celesta (Football Club), HGU   Dec. 2017 ~ Jun. 2018

ACTIVITIES

Club

1. Linux Hackers (Computer Science Club), HGU   Aug. 2021 ~ Sep. 2022
2. Hanmajiro (Judo Club), HGU   Mar. 2018 ~ Jun. 2024
3. Celesta (Football Club), HGU   Mar. 2017 ~ Jun. 2018

PROJECTS

Team Project

1. CIMS Project
   CCTV integrated management system using Wifi-HaLow and gRPC   Dec. 2023 ~ Feb. 2024
2. ByCoBERT
   Project-level vulnerability prediction using BERT pre-trained by Java Bytecode   Sep. 2023 ~ Dec. 2023
3. VIChecker
   File-level vulnerability detection tool using Generative AI in opensource projects   Jun. 2023 ~ Sep. 2023
4. GyroBot-Controller
   Automobile control by Bluetooth, Gyro Seonsor and WS2812LED with STM32   May. 2023 ~ Jun. 2023
5. mvnCrawler
   Crawling the opensource projects from maven repository for ByCoBERT   Mar. 2023 ~ Jun. 2023
6. Sign Language Translator Service
   Recognize and translate the sign language using YoLo4   Mar. 2023 ~ May. 2023
7. BLAP Web Service
   Efficient budget management web for achieving your bucket list   Dec. 2021 ~ Mar. 2022

AWARD

The 21th TOPCIT Regular Evaluation

Grand Award   17. Jun. 2024

Coding Hour Best TA Awards

Excellence Award   24. Dec. 2023

The 34th Capstone Festival 'Capstone 2' Awards
Best Award   16. Nov. 2023

The 25th KCSE Best Undergraduate Paper Awards
Outstanding Paper Award   09. Feb. 2023

Naval CERT Excellence Soldier
Excellence Award   12. May. 2021

Coding Competition for Freshman Awards
Bronze Award   20. Dec. 2017

LANGUAGE

Korean (Native)

English (Medium)
TOEIC: 845 (2024.6.30)

SKILLS

Language Skill

C/C++(Skillful), Java(Skillful), Python(Skillful), Shell(Skillful)

Certification
ISTQB CTFL   24. Aug. 2022
AICE Associate   13. Jul. 2024

Engineer Information Processing   . . 2024

SQLP   . . 2024