Kyochul **Jang**

Phone: +1 765-430-5851 | Email: gcj1234567890@gmail.com | LinkedIn: https://bit.ly/3nKDBIr

GitHub: github.com/OfficerChul | Portfolio: kyochuljang.com

EDUCATION

Purdue University   West Lafayette, IN

Bachelor of Science in Computer Science   Expected Graduation: December 2023

RESEARCH EXPERIENCE

Undergraduate Research Assistant / Undergraduate Researcher   10/2022-Present

SIMPLE Laboratory - Purdue University   West Lafayette, IN

- Compared and analyzed over 100 models built using YoloV5 in the field of computer vision and civil engineering for studying Transfer Learning and Domain Adaptation
- Identified and processed over 25000 videos with more than 1400 GB (face blurring, optimization, etc) using OpenCV

Undergraduate Researcher   05/2022-08/2022

Seoul National University (SNU) - Human Brain   Seoul, KR

Function (HBF) Laboratory

- Analyzed and presented various Machine Learning models' efficiency, including DNN and RNN, in Deep Learning Study
- Implemented Speech-Decoding experiments in people with epilepsy and analyzed the neural data to find features for the SVM Machine Learning model in a four billion dollar government-led "Alchemist" project

Undergraduate Data Science Researcher   08/2021-05/2022

The Data Mine, Purdue University - UPS   West Lafayette, IN

- Collaborated with UPS on Cross Reference and used Python and PowerBI to analyze the dataset that was provided by UPS using internal and external resources to give UPS insight into what portfolio companies to invest
- Developed a predictive model by using a K-means algorithm in the Scikit-Learn framework with the data to identify the potential of portfolio companies for UPS to partner with

WORK EXPERIENCE

Software Engineering Intern   06/2023-08/2023

College of Science, Purdue University   Suwon, KR

- Developed an automation program that measures the current and voltage of mobile AP in Galaxy series products
- Measured and analyzed the current and voltage usage in Application Process using Geekbench5

Undergraduate Teaching Assistant – CS 17700   08/2022-Present

College of Science, Purdue University   West Lafayette, IN

- Teach Programming with Multimedia Objects as a lab instructor and hold personal office hours
- Instruct course materials to students and help Graduate Teaching Assistant to supervise and grade students' lab

Web Development Tutor   05/2022-08/2022

Independent   Seoul, KR

- Tutored two design students in web development and helped to create and deploy their websites from the scratch
- Designed a 12-week course about web development | Course Website: https://officerchul.github.io/webDev101/

Student Office Staff   08/2021-05/2022

Purdue University Residences   West Lafayette, IN

- Served as a front-line representative of University Residences within the First Street Towers residence hall
- Learned how to treat customers in various situations and how the Residence system works at Purdue University

Moderation Intern   06/2020-07/2020

Bridging Group Korea   Seoul, KR

- Managed about 500 buyers and sellers in countries abroad using Korean, English, and Chinese, and moderated an event called SPP2020, sponsored by a Korean government agency, Seoul Business Agency
- Developed interpersonal communication skills with clients and colleagues by making contracts between business partners from all over the world

PUBLICATION

1) Oh, D., Kang, K., Seo, S., Xiao, J., **Jang, K.**, Kim, K., Park, H., Won, J. (2023). Low-Cost Object Detection Models for Traffic Control Devices through Domain Adaption of Geographical Regions. *Remote Sensing*. https://doi.org/10.3390/rs15102584

CONFERENCE PRESENTATION

1) **Purdue Undergraduate Research Conference | 2023**
   Jang, K., Oh, D., Kang, K. (2023). Domain Adaptation Using Pre-trained Object Detection Models for Traffic Control Devices in Other Geographical Regions. *Remote Sensing*

2) **The Data Mine Corporate Partners Symposium | 2022**
   Alhasan, Isslam., Ghaisas, Mihika., Iyer, Sankaran., **Jang, K.**, Kris, Leungwattanakij., Zheng, Annie. (2022). Prediction Model to Help UPS Identify Potential Companies that Yields Positive Results for the Company Using K-Means Algorithm. *The Data Mine*

LEADERSHIP EXPERIENCE

Recruitment Liaison Team Leader   08/2021-Present

Purdue Korean Association (PKA)   West Lafayette, IN

- Lead the largest team in the association with 10 team members and cooperate with Korean Companies to hire global talent
- Secure club operation fees by receiving donations from companies such as Samsung Electronics, LG, or SK innovation. We have raised $7000 this semester

Squad Leader   08/2018-03/2020

Republic of Korea Army   Seoul, KR

- Served as a squad leader of a radio operation squad in the military at Capital Defense Command Learned
- Worked as a translator of Chinese, English, and Korean at Army Headquarters

PROJECT EXPERIENCE

Neural Data Analyzation Program   08/2022

Python Dash   Seoul, KR

- Built a GUI web application that helps neuroscientists to plot and analyze neural data without writing a code
- Used Python Dash library to build the web app and SciPy library for processing noise signals in the neural data

Personal Website   08/2022-Present

React.js, CSS, HTML   West Lafayette, IN

- Built my website for my portfolio using Firebase, React.js, CSS, and HTML from scratch without using a template

Online Networking Platform   11/2020-12/2020

Java   West Lafayette, IN

- Built a social network application where job seekers can upload their introduction and interests for recruiters, like LinkedIn
- Tested every function of the program made by teammates by utilizing the JUnit test and resolved the defects of the program

AWARDS AND HONORS

Semester Honors   01/2021 ~ 05/2021
Dean's List   08/2021 ~ Present

PROFICIENCY IN SKILLS

Languages: English (Full Professional Proficiency), Chinese (Full Professional Proficiency), Korean (Native)

Programming Languages: Python, Java, C, C++, R, JavaScript (React.js), LaTeX, CSS, HTML

Tools: GitHub, OBS, Visual Studio Code, Artificial Neural Network (ANN), TensorFlow, Premiere Pro

Certification: HSK (Level 6), Craftsman Information Processing