

Kyochul Jang

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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

Samsung Electronics

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