

# KYOCHUL JANG

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## EDUCATION

### Purdue University

Bachelor of Science in Computer Science  
Concentration: Machine Learning

West Lafayette, IN

Expected Graduation: December 2023

GPA: 3.66 / 4.00

## PERSONAL PROJECTS

### Neural Data Analyzation Program - Python Dash

08/2022

- Built a GUI web application to help neuroscientists 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 - React.js, CSS, HTML

08/2022-Present

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

### Online Networking Platform - Java

11/2020-12/2020

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

## EXPERIENCE

### Undergraduate Research Assistant

10/2022-Present

SIMPLE Laboratory - Purdue University

West Lafayette, IN

- Processed the data for the use of Human Pose Estimation using Machine Learning
- Assisted research by building and optimizing the Object Detection model, a Computer Vision technology based on YOLO, to detect a human-classified object from 30000 videos with 1400 GB.

### 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

### Undergraduate Researcher

05/2022-08/2022

Human Brain Function (HBF) Laboratory - Seoul National University (SNU)

Seoul, KR

- 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

### 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/>

### 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

### Moderation Intern

06/2020-07/2020

Bridging Group Korea

Seoul, KR

- Managed about 500 buyers and sellers in countries abroad using Korea, 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

LEADERSHIP EXPERIENCE

|   |                    |
|---|--------------------|
| <b>Recruitment Liaison Team Leader</b>  | 08/2021-Present    |
| Purdue Korean Association (PKA)   | West Lafayette, IN |
| <ul style="list-style-type: none"><li>Lead the largest team in the association with 10 team members and cooperate with Korean Companies to hire global talent</li><li>Secure club operation fees by receiving donations from companies such as Samsung Electronics, LG, or SK innovation. We have raised \$7000 this semester</li></ul> |                    |
| <b>Squad Leader</b>   | 08/2018-03/2020    |
| Republic of Korea Military  | Seoul, Korea       |
| <ul style="list-style-type: none"><li>Served as a squad leader of a radio operation squad in the military at Capital Defense Command</li><li>Worked as a translator of English, Chinese and Korean at Army Headquarters</li></ul>   |                    |

AWARDS AND HONORS

|                    |         |
|--------------------|---------|
| <b>Dean’s List</b> | 05/2022 |
|--------------------|---------|

SKILLS

|   |
|---|
| <b>Languages:</b> English (Full Professional Proficiency), Chinese (Full Professional Proficiency), Korean (Native) |
| <b>Programming Languages:</b> Python, Java, C, C++, R, JavaScript (React.js), LaTeX, CSS, HTML                      |
| <b>Tools:</b> GitHub, OBS, Visual Studio Code, Artificial Neural Network (ANN), TensorFlow, Premiere Pro            |
| <b>Certification:</b> HSK (Level 6), Craftsman Information Processing   <b>Dean’s List:</b> 2022 ~ Present          |