

KYOCHULJANG

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EDUCATION

Purdue University

Bachelor of Science in Computer Science
Concentration: Machine Learning

West Lafayette, IN

Expected Graduation: December 2023

PERSONAL PROJECTS

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 React.js, CSS, and HTML from scratch without using any 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

EXPERIENCE

Undergraduate Teaching Assistant – CS 17700

08/2022-Present

College of Science, Purdue University

West Lafayette, IN

- Gained experience assisting students with Python Programming through a lab instructor and personal office hour
- Instruct course materials to students and help Graduate Teaching Assistant to supervise and grade students' lab and exam

Undergraduate Researcher

05/2022-08/2022

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

Seoul, KR

- Implemented Machine Learning models and presented the analysis of the efficiency of various machine learning models, 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 as a speech BCI software researcher 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 analyzed dataset that was provided by UPS using internal and external resources
- Developed a predictive model by using a K-means algorithm in the Scikit-Learn framework with the data to identify potential opportunities (portfolio companies) for UPS to partner with
- Conducted research by using Python to process the dataset and used Power BI to visualize the processed data

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

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 Military

Seoul, Korea

- 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

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 | **Dean's List:** 2022 ~ Present