

Jiwoong Jeon

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EDUCATION

The Pennsylvania State University | *Bachelor of Science in Computer Science* | GPA 3.51

Expected Graduation May 2023

EXPERIENCE

Siemens Electronic Design and Automation

May. 2022 – Present

Package Verification/ Machine Learning Intern | Austin, TX

- Awarded **Best Paper** from the IEEE and primary author of: [Simultaneous Co-dimensional Optimization of Differential Via Pad stacks](#)
- Simulated single and multi-processes of electronic package designs in parallel by applying optimization and sampling techniques to find parameter sensitivity and an optimal package design
- Analyzed risk & post-processed of an optimal design and suggested potential improvement with 3D representation to 2 vendors

Adversarial AI Undergraduate Research Assistant

Jan. 2022 – May. 2022

Student Assistant Researcher | University Park, PA

- Participated in Navy ROTC Projects on Cyber Security Training: Adversarial Machine Learning as an undergraduate researcher
- Conducted deep research on gradient based attacks such as Fast Gradient Signed Method (FGSM) and Carlini-Wagner (CW) attacks, and null-model based defense using PyTorch

Telepossible Corp.

Oct. 2021 – Present

Founder and CEO | Cedar Park, TX

- Founded non-governmental organization to provide remote medical services to underprivileged countries, and planning to provide the service after obtaining approval of the platform engagement from Laos Ministry of Health
- Worked closely with 50+ members in all facets of the organization and collaborated with 10+ medical professionals and donors to pro-actively participate in the project

Felicity Platform Development Club

Aug. 2021 - Present

Team Captain | University Park, PA

- Developed a free telemedicine platform integrating speech-to-text technology for those who have limited access to hospitals integrating ReactJS, NodeJS, and AWS EC2/RDS
- Founded the student association Felicity Platform Dev Club to provide nondiscriminatory remote healthcare treatment for all

United States of Army Garrison Headquarters and Headquarters Company

Jun. 2019 – Jan. 2021

Support Operations Sergeant (SPO) | Camp Casey/ Camp Yongsan

- Developed strategic plans and presentations for joint military operations with task team members to determine risks, budget constraints, and potential outcomes, providing effective consultations and translations to over 20 operations

PROJECTS

American Statistical Association Data Festival Competition 2022 | 1st place in Data Visualization

Mar. 2022

- Manipulated more than 2 billion of data and reduced 98 percent of normalized data for PSA application with AWS Sagemaker
- Presented the graphical representation of the K-means clustering algorithm by implementing unsupervised machine learning

Web Development - Sungkyunkwan Graduate School of Education (SKKU) | JavaScript, Python, Figma

Aug. 2021

- Developed a branded platform for SKKU to have better data organization and aesthetics
- SKKU could run their business online using the independent platform, ensured better communications with their business partners

Mobile Application Development – “Uni” | Java, Python, Html/CSS, Adobe Photoshop and XD

May. 2020

- Implemented a Python library BS4 efficient data collection, resulted in 1K downloads
- Optimized data visualization for aesthetic and efficient sharing of datasets using Adobe Photoshop & XD and Virtual Machine

SKILLS

Simulation, Optimization, Sampling, Python, JavaScript, C, C#, ReactJS, NodeJS, AWS, Linux, PyTorch, TensorFlow, Android Studio, Git

Certificate/Leadership Experience

2021 Army Impact Award (USAG Yongsan – Casey Headquarters and Headquarters Company)