Geesun Jang

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EDUCATION

Pennsylvania State University, University Park, Pennsylvania, USA — Aug 2018 – Aug 2020

- M.S. in Computer Science and Engineering

Konkuk University, Seoul, Republic of Korea — Mar 2011 – Jun 2018

- B.S. in Computer Engineering and Industrial Engineering (Dual-degree)

WORK EXPERIENCE

Web Developer, Deloitte — Aug 2020 – present

- Designed, planned and implemented UI for data management web service used by PBGC federal officials
- Developed 20+ functional components using React Hooks / Material-UI frameworks to provide intuitive functionality to the client
- Implemented ASP.NET framework RESTful APIs to store and fetch processed information from the front-end layer

Research Assistant, Pennsylvania State University — Aug 2019 – May 2020

- Participated in the High-frequency Ultrasound Finger Vein Imaging Research Project
- Developed an embedded device control system that associates a Raspberry Pi CPU, CNC-milling machine, an Oscillator, and ultrasound transducers.
- Conducted an under-water ultrasound scanning experiments and regenerated images from collected object scan data.

Staff Sergeant, Republic Of Korea Air Force — Apr 2013 – Apr 2015

- Served as an English interpreter position at the Korean Air Force Headquarters
- Translated and published 6+ books and selected as a representative of a wing crew.

PROJECTS

Money Management Web Application (May 2019, 4-people project)

- Built a Full stack web application using Machine learning model to predict client's financial behavior and provide financial advices.
- Successfully fulfilled the specification of our sponsor, Capital One, suggesting a good example of potential Money Management Application.
- Mainly worked on Front-end design and development using React framework.

Utilizing Local Alignment in STOP sign detection (May 2019, 1-person project)

- Utilized the Local Alignment Algorithm from Bioinformatics to solve Object detection problem.
- Used STOP sign dataset as an example showing 75% accuracy with this new approach.

Wallpaper Pattern Generation using GAN (May 2019, 1-person project)

- Generated fake images that seem realistic using new Neural Network architecture called GAN.
- Implemented GAN(Generative Adversarial Network) on Pytorch and trained Wallpaper image dataset.

SSH protocol Implementation (Dec 2018, 1-person project)

- Implemented a secure file transfer system based on SSH protocol using OpenSSL library in C language.

Calculator & digital clock program (Dec 2018, 1-person project)

- A calculator & digital clock program runs on the embedded system, HCS12C128 board.

TECHNICAL SKILLS

Programming : JavaScript, HTML, CSS, C, C#, Python, Matlab, LaTex
Framework : React, .NET Core, Pytorch

CITIZENSHIP

Dual Citizenship in **United States** and **South Korea**