Geesun Jang

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EDUCATION

Pennsylvania State University, State College, Pennsylvania, USA Aug 2018 – May 2020 (expected)

- 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)

PROJECTS

Money Management Web Application (link) (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 (link) (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 (link) (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 Implenetation (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.

Next-fit Memory allocator & deallocator Implementation (link) (Jun 2018, 1-person project)

- Developed a personal memory allocator & deallocator in heap memory space following the next-fit policy
- Successfully implemented the concept of coalescing and splitting like the allocator of Linux Operating System in C language.

Point of sale system Implementation (link) (Dec 2017, 4-people project)

- Developed a point of sale system software in C language following the Waterfall development paradigm.
- Used the CuTest Software Testing tool to verify the correctness of modules in our system.
- Manged the time schedule of the project as a team leader using Gantt chart.

TECHNICAL SKILLS

Programming Language : C language, Python, Java, HTML, CSS, JavaScript, Matlab, LaTex
Framework : Tesorflow, Pytorch (Machine Learning), React (Front-end development)

WORK EXPERIENCE

Republic Of Korea Air Force, South Korea Apr 2013 – Apr 2015

- Staff Sergrant (Final rank), served as an English interpreter role at the Korea Air Force Headquarters
- I translated and published 6 books during my service, and selected as a representative of our crew.

Korea Trade Investment Promotion Agency, Seoul, South Korea Feb 2016 – Jun 2016

- Undergraduate Student Intern, Market researcher, Department of Planning and coordination
- I conducted market research on consumer trends in top 10 OECD countries in a daily basis
- Also planned and managed Skull Sessions and Board of Director's meetings for 23 times.

CITIZENSHIP

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