HOJOUNG JANG

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nojoung97

in Hojoung Jang

EDUCATION

Purdue University, West Lafayette, IN Bachelor of Science in Computer Engineering Class of 2021 (Expected) **GPA: 3.85/4.0**

SKILLS

Software Skills:

• C/C++, Python, MySQL/SQL, Bash, MATLAB, HTML and CSS (Basic)

PROJECTS

CAM2 Research Team, Purdue University

May 2019 - Current

- Contributed with the Image Database Team to build effective real-time video stream feature indexing storage system using Python, MySQL/SQL, Vitess, MinIO and Docker
- Designed a fast and optimized video indexing system that could **respond in seconds** to user/client request for specific **featured images**
- Managed **Python** code with **OpenCV** that can download snapshots from IP cameras
- Developed a basic design to **scale** the system with multiple cameras using **multiprocessing** library in Python

Game Master AI May 2019 – Current

- Utilized **Reinforcement Learning** to design an algorithm that can interact with new environment and play with various games in **OpenAI-Gym**
- Acquainted with the design to handle both **discrete and continuous state** environment, **Q-learning** and **replay** buffer
- Experimented with a simple Q-learning algorithm to **Deep Q-learning** algorithm using **Tensorflow**

Magic Mirror May 2019

 Designed and built a mirror screen that displays useful information such as time, weather forecasts and Google news headlines

Portfolio Website August 2019

Utilized HTML, CSS and Javascript to build personal portfolio website that can showcase myself

Relevant Courses

ECE 26400 Advanced C Programming

Fall 2018

- Acquired how to work in Linux environment, using UNIX, GDB, and Makefile to manage and develop programs in C.
- Analyzed **recursive programs** using GDB and mapping call stack
- Implemented structures and dynamic data structures such as linked list and binary tree

ECE 36800 Data Structure

Spring 2019

- Acquainted with the use of data structures such as **stacks**, **queues**, **lists**, **trees**, **graphs**, **sorting**, **searching** and **hashing**
- Analyze **time and space complexity** of algorithms
- Built programming projects on topics such as Huffman encoding, data sorting and shortest path by applying data structures

ACHIEVEMENTS

Dean's List & Semester Honors, Purdue University

Fall 2018 & Spring 2019

Awarded Dean's List & Semester Honors