TYLER OH
COMPUTER SCIENCE

✉ sungbr95@gmail.com   📱 267.945.7930   ⚫ www.github.com/sungw5   🌐 tyleroh.com   🏠 1101 Oxford Cir, Lansdale, PA

OBJECTIVE

A graduating software engineer student, looking to use my passion in software design to create a meaningful impact.

EDUCATION

Pennsylvania State University   **University Park, PA**
Bachelor of Science, Computer Science   *Expected: May 2021*
- Minor: Mathematics

Relevant Coursework : *Data Structures and Algorithms, Systems Programming in C, Operating System Design in C, Database Management System, Programming Language Concept, UI/UX Design Method, Web Development*

TECHNICAL SKILLS

- **Programming Languages** : Proficient in Javascript, HTML/CSS, and C; Familiar with PHP, Java, C++, Python
- **Technologies/Frameworks** : Familiar with Git/GitHub, Bootstrap 5, MySQL, Bash, SASS, React, JS Libraries

INDEPENDENT & ACADEMIC PROJECTS

OUTECHKOREA.COM
An offical website of OUTECH KOREA, a CNC machining company in Asia
- Built the overall structure with HTML/CSS layout
- Used Javascript DOM with libraries & Kakao APIs to build the user interface
- Deployed the website with basic Search Engine Optimization (SEO)

LionCloud Filesystem Driver
A user-space device driver for a remotely connected cloud storage device providing file system interface
- Implemented logic for a basic UNIX file interface using the C language and memory system
- Built power management system and high-level filesystem functions such as read, write, open, close

Movie database management system
A HTTP&PHP interface with user account system that provides movie information populated by open source data
- Designed the data model, transaction, and indexing optimization for DBMS interaction/queries
- Implemented user&admin account management system and improved website security
- Built the user-interface using PHP, HTML, Bootstrap/CSS, and MySQL
- Optimized the database queries that load millions of rows to speed less than 0.04 seconds

Thread Schedulers & Memory allocation
- Built a CPU scheduler for a uni-processor-environment with Pthreads and semaphores
- Implemented a memory allocation/de-allocation schemes using Buddy System and Slab Allocation method

EXPERIENCES

OUTECH KOREA   **Hwasung, South Korea**
Global Conductor & Web Developer (Remote)   *May 2020 to August 2020*
- Guided foreign customers, translated technical documents, and built an official website for the company

Information Technology Lab   **University Park, PA**
IT Consultant   *Aug. 2019 to May 2020*
- Offered technical solutions and resolved 50+ technical issues of computers and peripheral equipment
- Provided customer service on both offline and online