JUN HA LEE

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github.com/andy0530

——— EDUCATION ———

University of California - Davis   Expected Graduation 2024
B.S. in Computer Science, B.S. in Statistics - Machine Learning Track
- Dean's Honor List - Spring 2019, Winter 2022
- Major GPA: 3.83/4.00

Dwight School Seoul   August 2015 - June 2018
International Baccalaureate Diploma - Bilingual
- Student Council President
- Honor Roll

——— WORK EXPERIENCE ———

Road to Success Education   Seoul, Korea
Web Developer / HTML, LaTeX   April 2021 - August 2021
- Created online testing platform that provides practice standardized test for high school students
- Refactored data processing of user management platform for automated grade reporting system
- Taught high-school mathematics, physics, and chemistry

ROK Army The 37th Infantry Division   Chungcheongbuk-do, Korea
Satellite Operator, Squad Leader   October 2019 - April 2021
- Managed satellite communication channel to serve as a form of backup communication
- Implemented framework to use satellite for communication in any remote area
- Operated cryptographic equipment and radio/frequency antennas
- Translated for ROK-US joint military exercise

——— SOFTWARE PROJECTS ———

Battleship / C++
- Created Battleship game with varying user configuration through object-oriented programming
- Implemented three different modes of playing between AI and human with options for difficulty
- Developed smart AI that performs based on previous events and actions

SearchBooks / C++
- Created a program that catalogs books and searches requested books using linear search and binary search
- Analyzed and justified the time complexity for each search and the application in a real-life situation
- Used operator overloading to effectively sort with multiple criteria

Congestion Control Protocol / Python
- Created a custom UDP-based congestion control protocol that ensures reliable delivery of data
- Implemented dynamic timeout implementation using statistical interpretation of previous metrics
- Used quick re-transmissions with duplicate acknowledgement for fast transmission of data
- Designed a sliding window with varying window size to outperform TCP Tahoe

——— SKILLS ———

Languages: English - Fluent, Korean - Fluent
Programming Languages: C/C++, HTML, Python
Technical Skills: Adobe Illustrator, Adobe Photoshop