

# JUN HA LEE

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## 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

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## 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

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## 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

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## SKILLS

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