Kanghyun Kim

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EDUCATION

Duke University — Expected May 2025
BSE in Electrical and Computer Engineering and Computer Science
Relevant Coursework: Data Structures & Algorithms, Computational Methods in Engineering, Computer Architecture, Software Design/Implementation

WORK EXPERIENCE

Network Operations Center at 7th Corps Command — Jun 2022 - Dec 2023
Squad leader, Signals operator
- Operated and mainatained 4 Linux-based communication servers spanning 80 subordinate units and 5000 subscribers
- Designed and managed robust network infrastructure solutions to ensure optimal performance and security, resulting in enhanced network efficiency and reduced latency
- Collaborated in creation of program to monitor military braodband communication networks that promptly detects disconnections and security events
- Served as a squad leader responsible for effectively leading a team of 13 soldiers

Private CS & Math Tutor
- **Topics taught:** Beginner C/C++, Python, Algebra I II, Geometry, Calculus I II, AP Physics, AMC, AIME
- Created competitive math textbooks (Algebra, Combinatorics, Geoemetry, Number Theory) including original exmaples and practice questions for AMC and AIME

PROJECTS

gundori — Jan 2023 - Feb 2023
Svelte
- Simple webapp to calculate and visualize total service days and vacation days in the military
- Syncs information saved in Svelte store to local storage to maintain user information across multiple sessions

Golf Reservation bot — May 2022 - Jun 2022
Python
- Simple golf reservation bot that books a tee time within a preferred time range
- Successfully booked reservations every time before the website banned bots

Duke Weightroom Data Visualization — Aug 2021 - Sep 2021
Python
- Analyzes and plot live data patterns of Duke Gym membership collected over the semester
- Implements LOWESS function for each weekday data set to find optimal times to go to the gym
- Allows Duke Students to observe trends and avoid busy times at the gym

Snippetbox — Jul 2021 - Aug 2021
Go
- Go web application that allows users to create and share text snippets from *Let's Go* by Alex Edwards
- Implemented Authentication (register and sign in), MySQL Database, Middleware, RESTful Routing, TLS web server using HTTP 2.0, Protected Endpoints, Golang HTML templates

Web Projects — Jun 2020 - present
HTML, JavaScript, CSS
- **Sudoku:** Insert and edit sudoku with clearer row and column visualizations
- **Beatpad:** Create beats using preloaded sounds or upload custom sounds to create custom beats
- **Rubik's Cube:** Emulate sides of a rubik's cube using formal turn notation

PROGRAMMING SKILLS

Languages: C/C++, Go, Java, Javascript, Python