Kanghyun Kim

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EDUCATION

Duke University   Expected Dec 2023
BSE in Electrical and Computer Engineering and Computer Science; GPA: 3.95
Relevant Coursework: Data Structures & Algorithms (Java), Computational Methods in Engineering (Python), Computer Architecture (C), Software Design/Implementation (Java)

PROGRAMMING SKILLS

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

PROJECTS

Duke Weightroom Data Visualization   Aug 2021 - Sep 2021
Python
- Analyze and plot live data patterns of Duke Gym membership collected over the semester
- Implement 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 at https://people.duke.edu/~kk388

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

WORK EXPERIENCE

Private CS & Math Tutor   Jan 2020 - Aug 2021
Description
- **Topics taught:** Beginner C/C++, Algebra I II, Geometry, Calculus I II, AP Physics, AMC, AIME,
- Created textbooks for math (Algebra, Combinatorics, Geoemetry, Number Theory) including original exmaples and practice questions for AMC and AIME preparation
- Assisted 4 students' applications to the top 3 most prestigious math programs