Jin Kim

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EDUCATION

NEW YORK UNIVERSITY — NEW YORK, NY

Major: B.S. Computer Science, **Minor**: Mathematics — ***Expected Graduation**: May 2022*
GPA: 3.52

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Data Analysis, Discrete Mathematics, General Engineering, Computer Architecture and Organization, Design and Analysis of Algorithms, Database Systems, Operating Systems

Accomplishments: Deans List, Honors Program

Affiliations: Honors Program, Poly Competitive Programming Club, Tech@NYU, CoStudy

PROFESSIONAL EXPERIENCE

NYU MOBILITY APP — NEW YORK, NY

iOS Developer / Student Researcher — *Mar. 2020 – present*

- Interned under faculty professors specialized in human computer interaction to develop an iOS application for NYU Langone low vision patients and Lighthouse specialists to track mobility data to their clients
- Researched/tested sensors, frameworks, and modules to maximize app performance and accuracy
- Built and managed a database to hold clinician and specialist data using Firebase Database, Firebase Storage and AWS
- Analyzed and visualized data sets to pinpoint data inaccuracies and detect mobility patterns
- **Utilized: Swift, UIKit, HTML, CSS, JavaScript, Node.js, Express.js, Heroku, Firebase Database/Storage, AWS**

NYU GENERAL ENGINEERING DEPARTMENT — NEW YORK, NY

Technology and Engineering Forum Teaching Assistant — *Sept. 2019 – present*

- Taught a class of 15 in discussions and workshops every other week, while maintaining records for over 100 students
- Corresponded with students to guide them through a semester-long project and assist them in designing and prototyping

PERSONAL PROJECTS

FASHION LOOKBOOK

- Built a full stack application that allows users to group fashion pieces from various sites such as Grailed and Etsy
- Designed a recommendation algorithm to find new brands based on previous selections, by categorizing different styles
- Implemented a front-end with a dashboard and a back-end that enables fashion pieces to be archived
- **Utilized: JavaScript, MongoDB, Express.js, React.js, Node.js, HTML, CSS, Git**

CHESS ENGINE

- Wrote a chess engine using the Minimax game theory algorithm, optimized with Alpha-beta pruning for more depth
- Designed to fit different playing styles and chess theory by recreating most commonly used openings and defenses
- **Utilized: Python, Pygame**

CLOUD HOSTED BOT

- Developed a Heroku hosted Discord bot that takes commands and responds accordingly for users in any given channel
- Used in multiple Discord channels, and hundreds of commands executed by hundreds of unique users
- **Utilized: Javascript, Heroku, Git**

ADVANCED CALCULATOR

- Developed a calculator that derives, integrates, and evaluates complex calculus expressions
- Designed an object-oriented hierachy using STL to optimze polynomial, exponential, and logarithmic expressions
- **Utilized: C++, STL**

KEY SKILLS

- **Computing Languages (Most comfortable to least):** C++, Python, Swift, JavaScript, C, Java, Ruby, MIPS Assembly
- **Frameworks/Libraries:** MongoDB, Firebase, AWS, SQL, NumPy, Pandas, Matplotlib, Express.js, React.js, and Node.js, SwiftUI, UIKit
- **Software/Tools:** MySQL, MS Office, HTML/CSS, Jupyter Notebook, Git, LaTeX
- **Natural Languages:** English, Korean (Proficient)