SeungYoon Han

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EDUCATION

Columbia University in the City of New York   New York, NY
Bachelor of Arts in Computer Science and Mathematics | GPA 3.65/4.0   January 2020 – July 2022
Relevant Coursework: Advanced Programming, Data Structure, Fundamentals of Computer System, Computer Science Theory, Analysis and Optimization, Number Theory and Cryptography, Combinatorics, Intro to Computer Engineering

De Anza College   Cupertino, CA
Associate's Degree in Computer Science | Dean's List | GPA 3.78/4.0   September 2017 – December 2019
Relevant Coursework: Intermediate Programming, Honors Data Abstraction & Structures, Java Programming, Intro to Programming, Intro to x86 Processor Assembly Language, Linear Algebra, Discrete Mathematics

PROFESSIONAL EXPERIENCE

Bu-up Inc.   Santa Clara, CA
Software Engineer Intern - Quality Assurance   September 2022 – Present
- Tested the mobile app of the company to maintain its quality and detected inconveniences in UI/UX and bugs in the system
- Helped analyzing, developing, and managing databases to improve customer sustainability and growth
- Assisted to conduct software development strategies with the Chief Technology Officer
- Conducted algorithmic analysis on coding fragments that resulted in identifying fatal bugs and debugged them

Humbler.co   New York, NY
Software Engineer Intern - iOS Developer   February 2022 – May 2022
- Brought financial savings of $10,000+ to the company by developing a mobile app manually
- Designed and developed a webview mobile app in iOS using Swift and managed all the launching process on the App Store
- Collaborated with CEO through direct one-on-one meeting once a week bringing impact to the business decisions
- Met colleagues in other departments weekly to exchange information and feedback for efficient business decisions

Republic of Korea Army   Gyeonggi-do, South Korea
Sergeant   April 2015 – January 2017
- Earned the Presidential Award for responding appropriately to North Korea's provocation in August 2015
- Achieved the fastest promotion in ranking
- Coordinated and planned infantry strategies and platoon formation for a distance of 100 miles
- Displayed strong analytical skills and computer literacy in running a functional office for day-to-day operation management and facilitated smooth information exchange among colleagues
- Arranged detailed inventory management for army firearms

PROJECTS

iOS Webview Mobile App   May 2022
- Solely designed and developed a webview mobile app supporting iOS using Swift that displays Humbler.co website with additional features such as a navigation bar, tab bar, and push notification that broadened accessibility for users

Machine Learning   December 2021
- Implemented a machine learning program using Python that preprocesses data sets of red and white wine and predicts whether input wines are red or white to over 95% of accuracy using the nearest centroid classifier

Image Decryptor   December 2021
- Implemented an image decryption program using Python that recovers an encrypted photo using XORing bitwise operation

Personal Web Server & Web Page   April 2021
- Developed a personal HTTP 1.0 web server and a web page using C that serves static HTML and image files
- Implemented a message database search feature that looks up the Columbia University server and shows the matching messages

Database Server & Message Database Search   April 2021
- Implemented a database server and a fork bomb guarding message search program using C that remotely accesses a database in the Columbia University server
- Applied a socket connection to search for records in a database server that matches the input string from the user

City Pairing   May 2020
- Implemented a program using Java that calculates the shortest path between two cities using Dijkstra's algorithm

Maze Solver   December 2018
- Implemented a maze solver using Breadth-first search, Depth-first search, and Backtracking algorithms in C++

Amazon Product Database   November 2018
- Led a team of four and implemented Amazon product database using templates, binary search trees, and hash tables
- Implemented a search function to find items by ASIN, brand name, and other item information

SKILLS

Programming Languages & Tools: C, C++, Java, Python, HTML, CSS, JavaScript, React.js, Ruby on Rails, PostgreSQL
Languages: Korean, English
Leadership: Founder of K-Busking Korean Club in De Anza College