Kyung Ho (Scott) Kang

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EDUCATION

Vanderbilt University, Nashville, TN, USA   **May 2024**
Bachelor of Science, Major: Computer Science | Minor: Mathematics, Chemistry, Economics   **Current GPA: 3.68**

Completed Coursework (Computer Science):
Program Design Data Structures, Algorithm, Intermediate Software Design, Programming & Problem Solving, Digital-Systems, Discrete Structures, Computer Ethics

Awards & Honors: Dean's List (3 semesters), Yonsei Uni. Summer Program Scholarship

Clubs & Organizations: VandyHacks, Korean Undergraduate Student Association, Asian American Student Association, LNYF Kpop Dance Team, KUSA Soccer Team, Multicultural Leadership Council – International Student Storytelling Showcase

TECHNICAL SKILLS

- **Computing**: C++, Python, JAVA, Matlab, JavaScript, React, Git, GitHub, STATA, Microsoft Office (Excel, Word, PPT, Access), Clion, Pycharm, Visual Studio Code, Node.js, pygame, pandas
- **Math**: Multivariable Calculus, Differential Equation with Linear Algebra, Linear Algebra, Probability/Statistics, Introduction to Numerical Mathematics

PROJECTS

Simulation of ATM (C++)
- Programmed USER, ACCOUNT, CASHBIN, CONSOLE classes to imitate the functionality of ATM. By using object-oriented programming, these classes work together to give the user an experience of using ATM

MazeSolver (C++)
- Programmed a MazeSolver, which can either use a stack or queue by user's choice to find a path between two points in a text-file-formatted maze. When using a stack, BFS is utilized and when using a queue, DFS is utilized

TextTwist (C++)
- Programmed a TextTwist game, which returns all the possible lexicon that can be formed from the 7 letters that the user inputs. The program contains a text file of valid words, and uses nodes and a tree to go through all the possible combinations

Alien Invasion (Python)
- Using a Python Crash Course Textbook as a reference, programmed an Alien-Invasion game using a pygame library

Website (React – ongoing)
- Used npm, a Javascript manager, and a 'create-react-app' module provided by Facebook to create React.js apps for a personal website on Visual Studio Code

WORK EXPERIENCE

Korea, Military Service, *Sergeant*   **DEC 2020 - JUNE 2022**
- Worked as a translator and an intelligence operation soldier at a command control center
- Dispatched to Incheon Airport, guiding overseas arrivals with quarantine processes in response to Covid19
- Major general award in training center, squad leader, colonel award in book report contest, ranger training winner

Wisconsin Universities Korea **Representative**, *Intern/Part-time*   **APR 2020 - DEC 2020**
- Taught ACT, IELTS, AP CalcAB, College Statistics, and College Algebra to high school seniors and College freshmen
- Managed student information, college application processes, and helped maintain the facility

Denave Korea, *Intern*   **JULY 2020 - AUG 2020**
- Organized an excel file to maintain information about business customers of Microsoft and reached out to respective tech managers to inform about virtual cloud training session, free trials, and important updates regarding Microsoft products

National Yang Ming University, Department of Biochemistry and Molecular Biology, Taipei Taiwan, *Intern*   **Summer 2017**
- Helped professors and graduate students with research on a protein called mCostars that regulates cell migration and wrote a lab report for the experiment
- Performed PCR, gel electrophoresis, culturing E.Coli, plasmid digestion & ligation, and observed migration of cancer cells and studied f-actin staining under a microscope, during a course of 6 weeks program