John J. Kim

(239) 776−8375 • john.j.kim@vanderbilt.edu • 2301 Vanderbilt Pl, PMB 354194, Nashville, TN 37235 • jkim2019.github.io

Education

Vanderbilt University, Nashville, TN **2015 – 2019**

- Dual Major: Mathematics and Computer Science, School of Engineering
- Overall GPA: 3.62 / 4.00, Mathematics GPA: 3.77 / 4.00, CS GPA: 3.75 / 4.00
- Minors: Financial Economics, Corporate Strategy

Online Coursework **Summer 2016**

- Stanford University, Coursera: Machine Learning
- MIT, EdX: Introduction to Computer Science and Programming Using Python

Work and Volunteer Experience

Vanderbilt University CompSustNet Laboratory **Summer 2017**

Research Assistant

- Researching uses of natural language processing in promoting environmental and cultural sustainability.
- Using Python to create algorithms to scrape data from online sources, analyze sentiment and topic diversity within pieces of text, and capture quantitative representations of semantic data.
- Using HTML, CSS, and JavaScript to connect algorithms to a front-end user interface.

Vanderbilt Student Volunteers for Science **August 2015 – Present**

Team Leader

- Presenting science concepts to local middle and elementary school students to pique interest in STEM fields. Leading a team of 4 peers by organizing class lesson structure to ensure learning experience proceeds smoothly and effectively.

Vanderbilt Neuroscience Laboratory **August 2016 – May 2017**

Research Assistant

- Researched neural network learning algorithms to simulate human cognition by modeling the inferior temporal cortex.
- Used MATLAB to code algorithms.
- Used UNIX to communicate with the Vanderbilt University ACCRE cluster.

Change Your VU **August 2016 – May 2017**

Founder

- Lead initiative to provide college counseling to local high school students from underprivileged backgrounds.
- Organized presentations to over 500 high school juniors and seniors regarding the benefits of tertiary education.

Vanderbilt University Computer Science Dept. **January 2017 – May 2017**

Teaching Assistant

- Analyzed and graded assignments and code submitted by 94 students in Computer Organization. Held office hours to address students' questions and concerns. Course taught in ARM Assembly.

Achievements

KICC National Champion **February 2017**

- After winning the Vanderbilt University campus competition and the North Atlantic regional competition, presented and placed 1st in the national round of KPMG's International Case Competition. 42 universities participated nationally.

Independent Projects

Concept Search – Created a 'concept search algorithm' that contextualizes a given query to provide refined search results. Used Python.

Titanic Classifier – Created logistic classifier to predict whether a passenger survived, given passenger characteristics, including gender and fare. Used MATLAB.

Handwriting Recognition – Wrote neural network classifier to read handwritten numbers. Used MATLAB.

Technical Skills

Proficient: C++ | Python | ARM Assembly | SQLite; Familiar: Java | MATLAB | UNIX | HTML | CSS | JS