

# John J. Kim

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

## Education

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### 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

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### JMRK Consulting

May 2017 – Present

#### Managing Partner, Co-Founder

- Co-founded and leading a student-run management consulting firm.
- Analyzed market entry strategies and competitor landscapes and designed PowerPoint presentations.
- Completed three engagements with an AI startup; currently performing an engagement with a second client.

### Vanderbilt University CompSustNet Laboratory

Summer 2017

#### Research Assistant

- Researched uses of natural language processing in promoting environmental and cultural sustainability.
- Used Python to create algorithms from scratch to scrape data from online sources, analyze sentiment and topic diversity within pieces of text, and capture quantitative representations of raw semantic data.
- Used 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

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

### 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

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### KICC National Champion

February 2017

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

## Independent Projects

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**Concept Search** – Created a 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

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