

# 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 (expected)

- Dual Major: Mathematics and Computer Science, School of Engineering
- Overall GPA: 3.53 / 4.00, Mathematics GPA: 3.74 / 4.00, CS GPA: 3.50 / 4.00
- Minor in Financial Economics, GPA: 4.00 / 4.00

### Online Courses

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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### Vanderbilt Neuroscience Laboratory – Technical Research Assistant

August 2016 – Present

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

### Change Your VU – Financial Officer

August 2016 – Present

- Leading initiative to provide college counseling to local high school student from underprivileged backgrounds.
- In the long term, we plan to expand our project into a national non-profit organization.

### Vanderbilt Student Volunteers for Science – Tutor

August 2015 – Present

- Presenting and explaining science concepts to local middle school students to pique interest in STEM fields.

### Immokalee Foundation Academy – Instructor

June 2012 – August 2012

- Taught enrichment math classes to disadvantaged students in preparation for standardized testing.

## Achievements

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### KICC North Atlantic Regional Champion

January 2017

- Represented and placed 1<sup>st</sup> in the North Atlantic Region of KPMG's International Case Competition.

### KICC Competition Campus Champion

November 2016

- Member of Vanderbilt University's winning team in KPMG's International Case Competition.

## Independent Projects

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**Titanic Classifier** – Designed learning algorithm based on a logistic classifier to predict whether a passenger survived, given passenger characteristics, including gender and fare. Used MATLAB.

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

**Graphing Calculator** – Designed calculator from scratch that graphs multivariable and parametric functions. Used C++.

## Relevant Coursework

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Program Design and Data Structures, Ordinary Differential Equations, Computer Organization, Multivariable Calculus, Linear Algebra, Complex Variables, Financial Accounting, Strategic Analysis

## Skills

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**Proficient:** C++ | Python | ARM assembly

**Familiar:** Java | MATLAB | UNIX | HTML | CSS | Bootstrap

**Operating Systems:** Windows, MacOS