

# John J. Kim

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## 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 students from underprivileged backgrounds.

### Vanderbilt Student Volunteers for Science – Team Leader

January 2017 – Present

- In addition to tutor responsibilities, organizing lesson structure to ensure learning experience is as smooth and effective as possible.

### Vanderbilt Student Volunteers for Science – Tutor

August 2015 – December 2016

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

## 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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Nonlinear Optimization, Database Management Systems, Program Design and Data Structures, Ordinary Differential Equations, Discrete Structures, Computer Organization, Multivariable Calculus, Linear Algebra, Complex Variables, Financial Accounting, Strategic Analysis, Probability and Mathematical Statistics

## Skills

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

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

**Operating Systems:** Windows, MacOS