# John J. Kim

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#### Education

#### Vanderbilt University, Nashville, TN

2015 - 2019

- 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: Financial Economics, Corporate Strategy
- ACT: 34, SAT Math II: 800

#### **Online Coursework**

Summer 2016

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

## **Work and Volunteer Experience**

# Vanderbilt Neuroscience Laboratory

August 2016 - Present

Technical Research Assistant

- 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**

August 2016 - Present

Founder, Financial Officer

- Leading initiative to provide college counseling to local high school students from underprivileged backgrounds.
- Organizing presentations to over 500 high school juniors and seniors regarding the benefits of higher level education.

### **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 University Computer Science Dept.

January 2017 - Present

Teaching Assistant

Analyzing and grading assignments and code submitted by 94 students in Computer Organization. Holding
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 1<sup>st</sup> in the national round of KPMG's International Case Competition. 43 universities participated nationally.

# **Independent Projects**

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

# **Relevant Coursework**

Nonlinear Optimization, Database Management Systems, Ordinary Differential Equations, Multivariable Calculus, Linear Algebra, Financial Accounting, Strategic Analysis, Probability and Mathematical Statistics

# Skills

Proficient: C++ | Python | ARM assembly | Microsoft Office; Familiar: Java | MATLAB | SQLite | UNIX | HTML | CSS