# John J. Kim

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## Education

**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

**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

**KICC Competition Campus Winner** **November 2016**

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

**Rensselaer Polytechnic Institute Medalist** **April 2014**

- Winner of Rensselaer Polytechnic Institute's merit scholarship, given to a chosen member of the Junior class.

## Independent Projects

**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

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

## Skills

**Proficient: C++ | Python | ARM assembly**
**Familiar: Java | MATLAB | UNIX | HTML | CSS | Bootstrap**
**Operating Systems: Windows, MacOS**