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 students 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 North Atlantic Regional Champion   **January 2017**
- Represented and placed 1st 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

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

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

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