

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