John J. Kim

(239) 776−8375 • john.j.kim@vanderbilt.edu • 2301 Vanderbilt Pl, PMB 354194, Nashville, TN 37235 • jkim2019.github.io

Education

Vanderbilt University, Nashville, TN **2015 – 2019**

- Dual Major: Mathematics and Computer Science, School of Engineering
- Overall GPA: 3.62 / 4.00, Mathematics GPA: 3.77 / 4.00, CS GPA: 3.75 / 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 1st 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; Familiar: Java | MATLAB | SQLite | UNIX | HTML | CSS | Bootstrap