

# RUIDA ZENG

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## EDUCATION

### Vanderbilt University

Nashville, TN

#### B.S. Computer Science & Mathematics, Minor - Engineering Management

August 2018 – December 2021

- Relevant Courses:
  - Computer Science: Program Design & Data Structures, Digital Logic, Computers & Ethics, Circuits I, Intermediate Software Design, Algorithms, Theory of Automata & Formal Languages, Programming Languages, Compiler Constructions, Operating Systems, Computer Networks, Cyber Security, Binary Exploitation & Reverse Engineering, Cloud Computing, Machine Learning, Artificial Intelligence
  - Mathematics: Multivariable Calculus, Linear Algebra, Probability and Mathematical Statistics, Ordinary Differential Equations, Error-Correcting Codes & Cryptography, Discrete Mathematics, Graph Theory
  - Engineering Management: Technology Strategy, Engineering Economy, Applied Behavioral Science, Systems Engineering, Program & Project Management

## AWARDS

Dean's List – 2018 Fall, 2019 Fall, 2020 Fall, 2021 Spring, 2021 Fall

1st Place @ Vanderbilt University Programming Contest & ICPC North America Qualifier – February 2021

Runner-Up Masterpiece (2nd place) @ VandyHacks VI – November 2019

## WORK EXPERIENCES

### Vanderbilt University School of Engineering

Nashville, TN

Undergraduate Teaching Assistant

January 2019 – May 2021

### Institute for Software Integrated Systems

Nashville, TN

Summer Intern

April 2020 - August 2020

### Vanderbilt University School of Engineering

Nashville, TN

Summer Research Fellow

April 2019 - August 2019

## PUBLICATIONS & POSTER PRESENTATIONS

R. Zeng, A. Bandi and A. Fellah, "Designing a Brain Computer Interface Using EMOTIV Headset and Programming Languages," *2018 Second International Conference on Computing Methodologies and Communication (ICCMC)*, 2018, pp. 908-913, doi: 10.1109/ICCMC.2018.8487684.

Cluster Analysis on Subject Data in Immersive Virtual Environments. Vanderbilt University, Nashville, Tennessee, September 2019.

## SELECTED PROJECT

Stratus – A fully-implemented cloud-based deep learning project with end-to-end full-stack handwritten digit recognition. Built using Chameleon Cloud, Kafka Broker and Zookeeper, Docker and Kubernetes, nginx, and Spark ML. [\[GitHub\]](#) [\[paper\]](#)

## LEADERSHIP EXPERIENCES

### VUcept

Nashville, TN

Student VUceptor

May 2019 - February 2020

## CAMPUS INVOLVEMENTS

Alternative Spring Break, Vanderbilt Student Volunteers for Science, Inside 'Dores Blogger