

# Robert Zhang

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## EDUCATION

### VANDERBILT UNIVERSITY

B.S/M.S. IN COMPUTER SCIENCE

B.S. IN MATHEMATICS

Graduating May 2019

GPA: 3.79

## LINKS

Facebook: [robert.zhang.54](#)

Github: [robertbzhang](#)

LinkedIn: [robertbzhang](#)

## COURSEWORK

### GRADUATE

Advanced Artificial Intelligence

Deep Learning

Distributed Systems Principles

Design and Analysis of Algorithms

### UNDERGRADUATE

Concurrent Java Programming

Operating Systems

Virtual Reality Project

Algorithms (*Teaching Assistant*)

Data Structures

Database Management Systems

Compiler Construction

Programming Languages

Intermediate Software Design

Computer Organization

## SKILLS

### LANGUAGES

C++ • Java • Python • JavaScript

HTML/CSS • MATLAB • Assembly

SQL

### FRAMEWORKS/LIBRARIES

AngularJS • jQuery • TensorFlow

Keras

## ORGANIZATIONS

ACM • Badminton Club (President)

Theta Tau Engineering Fraternity

## EXPERIENCE

### MICROSOFT | SOFTWARE ENGINEERING INTERN

May 2018 – Aug 2018 | Redmond, WA

- Implemented an application integrating Office Lens image enhancement algorithms into Skype video calls (C++)
- Developed computer vision modules for foreground removal and movement detection (C++)

### VANDERBILT FRENCH DEPARTMENT | WEB DEVELOPER

Aug 2016 – May 2017 | Nashville, TN

- Designed and launched a web application for study of Medieval era manuscripts, using HTML/CSS, Javascript, and jQuery

### EASTSIDE EDUCATION | JAVA PROGRAMMING TEACHER

May 2015 – Aug 2016 | Bellevue, WA

- Taught classes of middle and high school students Java in preparation for AP Computer Science
- Developed original curriculum tailored to students' respective needs and interests

## RESEARCH

### VANDERBILT COMPUTATIONAL MEMORY LAB

#### RESEARCH ASSISTANT

May 2017 – Aug 2017 | Nashville, TN

- Implemented Markov chain Monte Carlo parameter recovery algorithm
- Designed and developed script to recover parameters from particle swarm optimization algorithm

### VANDERBILT MEDICAL ENGINEERING AND DISCOVERY LAB

#### RESEARCH ASSISTANT

Dec 2016 – May 2017 | Nashville, TN

- Developed CT scan image segmentation software using MeVisLab

## PROJECTS

### STARCRAFT II AI

Jan 2018 – Present

- Implementing a deep reinforcement learning StarCraft II AI using OpenAI Baselines

## AWARDS

2013	5 <sup>th</sup> /100	University of Washington Computing Contest
2011	1 <sup>st</sup> /100	DigiPen Video Game Programming Competition