

# Sunny Guan

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## EDUCATION

### The University of Texas at Dallas

Aug 2020 – May 2023

B.S. Computer Science, Collegium V, Computing Scholar, National Merit Scholar

Richardson, TX

- Organizations: Association for Computing Machinery (ACM), Artificial Intelligence Society (AIS)

### De Anza College, West Valley College

2018 – 2020

Dual Enrollment

Cupertino, CA

### Lynbrook High School

2016 – 2020

High School Diploma, 3.95/4.00

San Jose, CA

## COURSEWORK

Data Structures and Algorithms

Probability and Statistics

Number Theory

Differential Equations

Linear Algebra

Discrete Mathematics

## SKILLS

**Languages:** Java, Python, C++

**Web Development:** HTML/CSS, JavaScript, React, Angular

**Tools:** Flask, Git, Heroku, Spring Boot, Linux, Vim, Azure

## PROJECTS

### VR Viewport Prediction

Sep. 2020 – Present

ACM Research

[GitHub](#)

- Researching benefits of using salient features in VR videos to predict user viewport and reduce network usage.

### UTDegree Planner

Jun. 2020 – Present

React, JavaScript, Python

[utdegreeplanner.com](#)

- Implemented important features such as prerequisite validation and graph visualization to improve functionality and visual appeal of application for end users
- Additional features include transcript parsing (with Python), autocomplete (React MUI), and import/export.

### UTD Course Search

Apr. 2020 – Present

Angular, Java Spring Boot, Flask

[utdrmp.herokuapp.com](#)

- Maintain average of 50+ users per day by developing web application to aggregate data from course catalog, past semester grades, and professor reviews for UTD students
- Improved user experience by adding course conflict calendar, column sort/filter, and search history access.

## WORK EXPERIENCE

### Code Instructor

Dec. 2019 – Aug. 2020

The Coder School

Cupertino, CA

- Improve students' skillset in Java, Python, and JavaScript, through weekly tutoring sessions.
- Prepared high school students for AP Computer Science by writing weekly progress reports and teaching important concepts such as inheritance, polymorphism, and recursion.

### Math Tutor

Dec. 2018 – Jun. 2019

Brighter Future Learning Center

San Jose, CA

- Tracked students' skills in mathematics ranging from Algebra to Calculus through bi-weekly meetings.
- Graded exams and homework assignments to monitor and report students' current progress to supervisor.

## ACHIEVEMENTS

### National Merit Finalist

- Full scholarship for performance on the PSAT (1500/1520) as well as the SAT (1580/1600).
- Awarded to 0.4% of 3.5 million high school seniors in the US.

### CS<sup>2</sup> Honors

- Passed entrance exam to join UTD's invite-only CS Honors program.

### AIME Qualifier

- Qualified for the American Invitational Mathematics Exam 3 times (top 5% of AMC 12).