

# Sunny Guan

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## Education

### The University of Texas at Dallas

B.S. Computer Science, 4.0 GPA

Richardson, TX

Aug 2020 - Dec 2022

- **Honors:** National Merit Scholar, Collegium V, Computing Scholar
- **Organizations:** Association of Computing Machinery (Officer), FinTech UTD (Director), Artificial Intelligence Society

## Work Experience

### Virtu Financial

Incoming Trading Systems Developer Intern

Austin, TX

Jul 2021 - Dec 2021

### Amazon

Incoming Software Development Engineer Intern

Seattle, WA

May 2021 - Jul 2021

### The Coder School

Computer Science Tutor

Cupertino, CA

Dec 2019 - Aug 2020

- Improved students' knowledge of Java, Python, and HTML/CSS/JavaScript through weekly tutoring sessions
- Completed weekly progress reports for 20+ students to document lesson notes and update parents on current progress

## Projects

### Comet Planning

Firebase Hosting, Google Cloud Run, Firestore, NodeJS, React, NextJS, Python

ACM Development

Aug 2020 - Present

- Developed language parser with Chevrotain to achieve over 95% accuracy for generating 1000+ prerequisite trees
- Implemented front-end authorization flow with Google OAuth and secured 6 RESTful API routes through Firebase Admin
- Deployed containerized applications through Google Cloud Run and stored 1300+ course listings with Cloud Firestore

### Virtual Reality Viewport Analysis

Python, OpenCV, Keras, Tensorflow, Seaborn

ACM Research

Aug 2020 - Present

- (Spring 2021) Led team of 4 students with professor in researching VR viewport heatmaps and movement classification
- Collaborated with team members to analyzed benefits of tracking salient features in 30 VR videos to predict user viewports
- Proposed and designed Machine Learning model with Keras for predicting K-Means clusters with 90% accuracy

### Whiteboard

JavaScript, HTML/CSS, Git, Python Flask, Svelte, TailwindCSS, Chrome Extension

Personal Project

Apr 2020 - Present

- Overhauled UTD's Learning Management System with Material UI and added 10+ crucial features and enhancements
- Launched API to incorporate 500+ professors' information and past semesters' grades data into course catalog
- Maintained Chrome Extension for 200+ active users and actively monitoring for bug reports and feature requests

## Skills

<b>Language and Libraries</b>	Java, Python, JavaScript, C++, React, Node.js, Next.js, Python Flask, OpenCV
<b>Platforms and Frameworks</b>	Git, Linux, Firebase, Azure, AWS, GCP, Kaggle, Keras, Heroku, MongoDB, Netlify, Vercel
<b>Relevant Coursework</b>	Data Structures and Algorithms, Computer Architecture, Probability and Statistics Multivariable Calculus, Differential Equations, Linear Algebra, Artificial Intelligence

## Honors & Awards

- 2021 **ACM ICPC NADC Qualifier**, Qualified with 11th place ranking across more than 60 teams
- 2020 **National Merit Scholar**, Full scholarship for performance on PSAT (1500) and SAT (1580/1600)
- 2020 **AIME Qualifier**, 3x (2018-2020) qualifier for the American Invitational Mathematics Exam
- 2020 **Computing Scholar**, Member of UTD's competitive CS Honors program (30/800 students per year)
- 2017 **USA Computing Olympiad**, Contestant in Gold Division