Sunny Guan

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Education

The University of Texas at Dallas — Richardson, TX
B.S. Computer Science, 4.0 GPA — 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 — Austin, TX
Incoming Trading Systems Developer Intern — Jul 2021 - Dec 2021

Amazon — Seattle, WA
Incoming Software Development Engineer Intern — May 2021 - Jul 2021

The Coder School — Cupertino, CA
Computer Science Tutor — 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 — ACM Development
Firebase Hosting, Google Cloud Run, Firestore, NodeJS, React, NextJS, Python — 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 — ACM Research
Python, OpenCV, Keras, Tensorflow, Seaborn — 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 — Personal Project
JavaScript, HTML/CSS, Git, Python Flask, Svelte, TailwindCSS, Chrome Extension — 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

Language and Libraries	Java, Python, JavaScript, C++, React, Node.js, Next.js, Python Flask, OpenCV
Platforms and Frameworks	Git, Linux, Firebase, Azure, AWS, GCP, Kaggle, Keras, Heroku, MongoDB, Netlify, Vercel
Relevant Coursework	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