Sunny Guan

☐ (206) 498-3739 | ✉ Sunny.Guan@utdallas.edu | ⌨ sunnyguan | in sunny-guan

Education

The University of Texas at Dallas   Richardson, TX
B.S. Computer Science, 4.0 GPA   Aug 2020 - May 2023
- Honors: National Merit Scholar, Collegium V, Computing Scholar
- Organizations: Association of Computing Machinery (Officer), FinTech UTD (Director), Artificial Intelligence Society

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
Relevant Coursework	Data Structures and Algorithms, Computer Architecture, Probability and Statistics
	Multivariable Calculus, Differential Equations, Linear Algebra, Artificial Intelligence

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   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

Work Experience

Virtu Financial   Austin, TX
Incoming Trading Systems Developer Intern   Aug 2021 - Nov 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

Honors & Awards

2021	**Capital One SES**,	Attended Capital One's selective Software Engineering Summit
2020	**National Merit Finalist**,	Full scholarship for performance on PSAT (1500/1520) 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