DANIEL GUO

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EDUCATION

University of California, Los Angeles (UCLA), Los Angeles, CA   Expected September 2027
Computer Science
- Relevant course work: Combat Robotics, Introduction to Computer Science I, Data Structures and Algorithms, Introduction to Computer Organization, Software Construction, Linear Algebra, Discrete Math

COMPUTER SKILLS

- Programming Languages: Python, JavaScript, C++, C#, C, HTML, CSS
- Technical: PyTorch, NumPy, Pandas, Dask, Vue.js, React, Node.js, SolidWorks, GitHub, Unity, Bash, MongoDB

INTERNSHIP EXPERIENCE

CTESPP Preceptorship | *Preceptor - Career Technical Education Summer Preceptorship*   June 2022 - July 2022
- Collaborated with 8 other preceptors under Dr. Harsh Verma to parse through Amtrak train departure and arrival times using basics of Javascript and present times on front end using Vue.js, HTML, and CSS alongside object detection and passenger occupancy through Raspberry Pi devices

PROJECTS

Trustworthy AI Lab | *Student Researcher*   March 2024 - Present
- Analyzed and enhanced data loading efficiency of CTGAN (tabular data synthesizer) through partitioning of training data through Dask DataFrames while ensuring compatibility with PyTorch tensor datasets

ACM AI | *Projects Track - Emoji GAN*   January 2024 - Present
- Cooperated with team members to learn and apply Python, PyTorch, and NumPy skills to design a dataset, data loader, and convolutional neural network for organizing and processing emoji image data
- Implemented generator, discriminator, and training loop to develop a novel emoji GAN model for expressive image generation and discrimination

ACM Studio | *Project Rudd - Programmer*   January 2024 - Present
- Collaborated with team members to build and test a working videogame in style of a 2D platformer through Unity
- Drafted and deployed movement, collision detection, momentum, gravity, and integrated cutscenes while maintaining version control through GitHub

EXPERIENCE

Tutor | *AP Calc AB/BC, Computer Science Principles, Physics 1*   August 2023 - Present
- Organized one-on-one Zoom sessions, explained key concepts and common mistakes through example problems, and communicated with student to design future lesson plans, resulting in average increase of one letter grade

Marshalls Folsom | *Retail Associate*   June 2021 - August 2023
- Prepared and arranged merchandise on sales floor, resolved customer complaints, and engaged with customers, encouraging feedback through online surveys

LEADERSHIP EXPERIENCE

CS@Vista | *Treasurer*   August 2021 - May 2023
- Planned weekly meetings to notify members of upcoming competition schedules, enrolled club members in competitions (Cyberpatriot, Codewars, PicoCTF), hosted webinars from alumni with experience in computer science

Folsom Middle School Quiz Bowl | *Officer; Founding Member*   August 2022 - May 2023
- Communicated with club advisor to plan weekly meetings, helped moderate buzzer practices in a mock-competition setting, and familiarized club members with Quiz Bowl's rules and competition format, placing top 10 among teams in tournament

Vista Quiz Bowl | *Officer; Junior Varsity and Varsity Team Member*   August 2020 - May 2023
- Planned and moderated weekly in-person buzzer practices, compiled online resources for future study, and recruited and advised over 20 new players to improve knowledge in math, science, and humanities
- Competed in regional and online tournaments, qualified for and attended NAQT's High School Nationals tournament as part of the A team, finishing 187th among over 300 teams

ACCOMPLISHMENTS

- Awards: UPE Membership, CSF Lifetime Membership, NHS Lifetime Membership, AP Scholar with Distinction (2022-23), AP Scholar with Honor (2021), Dean's Honor List (2024), Class of 2023 Valedictorian (Vista del Lago High School)