ANDY XU

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EDUCATION

Dartmouth College, Hanover, NH **June 2026**
Bachelor of Arts, Major in Computer Science **GPA 3.8/4.0**
Relevant Coursework: Problem Solving via Object-Oriented Programming, Multivariable Calculus, Discrete Mathematics, 3D Digital Modeling
Honors/Awards: Academic Citation for Excellence (Problem Solving via Object-Oriented Programming)

Monta Vista High School, Cupertino, CA **June 2022**
Honors/Awards: National Merit Finalist, AP Scholar with Distinction, President's Volunteer Service Award **GPA 4.4/4.0**
Activities: Artificial Intelligence Club, Variations Choir, Varsity Track and Field, Link Crew

EXPERIENCE

Smip (Social Media Security Startup) **January 2023 - Present**
Software Engineering Intern
- Developing Machine Learning model to identify characteristics of businesses most at risk to bots and cyber threats

Insighting (AI Business Analytics Startup) **September 2022 - December 2022**
Software Engineering Intern
- Implemented Seasonal ARIMA (SARIMA) model to predict revenue growth using existing data
- Performed data wrangling and anomaly removal using Python pandas and matplotlib libraries
- Extracted seasonal components from time series using Python's statsmodel module

California State Summer School for Mathematics & Science (COSMOS), UC Irvine **June 2021 - August 2021**
Researcher
- Investigated 3D spatial sound with applications in virtual reality
- Researched algorithmic techniques to simulate sound movement in a binaural audio system
- Developed a simulation model in Python using the Pyo module for digital signal processing
- Presented results at symposium
- Mentored by Professor Martin Jaroszewicz from UC Irvine

Moving Sound Synthesis Research for VR, UC Irvine **August 2021 - May 2022**
Researcher
- Augmented algorithm to synthesize moving sound in a binaural system for Virtual Reality and refined simulation model
- Published paper in Vanderbilt's Young Scientist Journal
- Mentored by Professor Martin Jaroszewicz from UC Irvine

LEADERSHIP & SERVICE

Leo District 4-C4, San Francisco, CA **August 2018 - June 2022**
President
- Led volunteering events across 11 Bay Area high school clubs; oversaw 8 district-wide projects; created & maintained partnerships with 2 local hospitals, 2 nonprofits and 3 senior centers
- Focused on supporting local children. Events included: Fruit fundraiser to raise money for NICU babies at Santa Clara Valley Medical Center, Supply Drive for children's hospital(Ronald McDonald House Palo Alto), Assisted Resource Area for Teaching (RAFT) nonprofit to sort and package school supplies to be donated to schools, Sports day for children with special needs at APJCC community center, Read-with-Kids program at a local education center, and more
- Awarded LIONS Young Leaders in Service Award

PUBLICATIONS

"Implementing an Audio Processing System to Simulate Realistic Distance with Sound" **May 2022**
Vanderbilt's Young Scientist Journal

SKILLS & INTERESTS

Social Media: Instagram, Tiktok, Snapchat, Youtube, Facebook
Technical: Python, Java, Tensorflow, Sci-kit Learn, HTML, CSS
Languages: English (fluent), Mandarin (fluent), Spanish (conversational)