

Joshua Ye

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EDUCATION

Vanderbilt University

Nashville, TN

Bachelor of Science in Computer Science, GPA: 3.906

Aug. 2023 – June 2027

- Relevant Coursework: CS2201: Algorithms & Data Structures, CS3251: Intermediate Software Development, CS1101: Introduction to Programming

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, R

Frameworks: React, Node.js

Developer Tools: Git, VS Code, PyCharm, IntelliJ

Libraries: pandas, NumPy, Matplotlib

Operating Systems: Linux

EXPERIENCE

Vanderbilt CS2201 Teachers Assistant

2024 – Present

Vanderbilt University

Nashville, TN

- Provided academic support through grading, holding office hours, and assisting with course materials.
- Facilitated lab sessions, helping students troubleshoot code, understand data structures, and optimize algorithms.

Founder and President of Tri-Valley Gardening Club

2020 – Present

Tri-Valley, CA

- Led volunteer activities in farms, organized lectures for youths from 10+ schools to learn about horticulture.
- Grew over 600 pounds of organic produce yearly for the poor and homeless, coordinating with local shelters for distribution.

FPV Drone

2023 – Present

Self-Initiated Projects

Remote

- Designed and built custom FPV drones, focusing on flight dynamics and signal integrity.

Arch Linux Enthusiast

2022 – Present

Self-Initiated Projects

Remote

- Installed and configured Arch Linux, including advanced setup of Linux filesystems.
- Published solutions of configuration challenges for arch hyprland on GitHub, contributing valuable resources to the Linux community.

Founder and President of Quarry Lane FPV Freestyle Drone Club

2022 – Present

Quarry Lane School, CA

- Organized training workshops, taught mechanical engineering concepts, strategies, and flying skills.
- Developed custom FPV drones, managing all aspects from hardware assembly to software calibration for optimal performance.

Vice President of Student Council of Chinese American Cooperation School

2021 – 2023

Chinese American Cooperation School, CA

- Organized gala & festivals with 400+ participants, ensuring seamless event execution.
- Arranged teen volunteers to promote Chinese culture, facilitating cultural exchange programs and workshops.

HONORS AND DISTINCTIONS

- The President's Volunteer Service Award - Gold 2020 – 2022
- The Society of Chinese American Physician Community Service Award 2020 – 2022
- The Quarry Lane Excellence in Innovation in Advanced Engineering Honors 2021
- FIRST Robotics Competition (FRC) Silicon Valley Regional Tournament Winner 2022
- National AP Scholar with Honor Award 2022