

# Joshua Ye

personal website: <https://joshh-ye.github.io/portfolio/>

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## EDUCATION

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### Vanderbilt University

Nashville, TN

*Bachelor of Science in Computer Science, GPA: 3.906*

*Aug. 2023 – June 2027*

- **Relevant Coursework:** Programming & Problem Solving, Program Design Data Structure, Discrete Structures, Intermediate Software Design

## TECHNICAL SKILLS

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

**Frameworks:** React, Node.js

**Developer Tools:** Git, VS Code, PyCharm, IntelliJ, REST API

**Libraries:** Pandas, NumPy, Matplotlib

**Operating Systems:** Linux

## EXPERIENCE

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### Vanderbilt Teacher's Assistant - Computer Science

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.

### Arch Linux Enthusiast

2022 – Present

*Self-Initiated Projects*

- 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.

### Student Researcher - Aspiring Scholars Directed Research Program

2022 – 2023

*premier precollegiate research & development institution in California*

- Conducted research on applications of Artificial Intelligence/machine learning in medicine to improve patient recruitment for medical clinical trials.

### Founder and President of Quarry Lane FPV Freestyle Drone Club

2022 – 2023

*Quarry Lane School, CA*

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

### 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.

### Volunteer Crisis counselor at Crisis Text Line

2023 - present

*Nationwide Mental Health Crisis Intervention and Support Service*

- Provide compassionate and immediate support to individuals experiencing emotional distress, guiding them through moments of crisis via text-based communication.

## HONORS AND DISTINCTIONS

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- The President's Volunteer Service Award - Gold 2020 – 2024
- 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