# Krishna Durgavarjhula

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*A passionate and hardworking high school senior looking to pursue the field of Computer Science, with a focus on software integration, machine learning, mechanical engineering, and graphic design.*

## EDUCATION

**American High School** **Aug 2022 - May 2026**

**GPA:** 3.83 (Unweighted)

**Completed Courses:** AP Computer Science A, AP Physics 1, AP Computer Science Principles, Introduction to C++

**In-Progress Courses:** AP Calculus BC, AP Physics C (Mechanics and E&M), AP Government, AP Economics

**Clubs:** Computer Science Club (Instructor/Secretary), Quiz Bowl (Team Member)

## PROFESSIONAL EXPERIENCE

**Web Development Intern | Lift and Shift Foundation** **Jan 2023 - Present**

- Coded elements for and fixed bugs on the Lift and Shift website.
- Gained further experience with HTML/CSS/JS, GitHub, working with a team, and coding around existing architecture.

## VOLUNTEER WORK

**Presenter | Priya Senior Living** **Aug 2025 - Present**

- Gave a presentation on detecting scams to an audience of 25 seniors, and currently fundraising for a pavilion deck.

**Instructor | Coding Tomorrow Initiative** **Jun 2025 - Jul 2025**

- Volunteered as a web development instructor for a class of 20 middle schoolers.
- Created curriculum, presented slide decks, coded examples, assigned homework, and taught students virtually.

**Teaching Assistant | Chinmaya Mission Bala Vihar** **Jun 2022 - Jun 2023**

- Volunteered as a teaching assistant for a class of 20 kindergartners.
- Managed curriculum, marked attendance, and formulated interactive, engaging exercises to teach Indian culture.

## EXTRACURRICULAR ACTIVITIES

**Student | UC Berkeley ROAR Academy** **Jul 2025 - Aug 2025**

- Ran machine learning simulations in Python for autonomous driving using deep neural networks and gradient descent.
- Gained experience with Python libraries, AI/ML, and applying theoretical concepts to real-world environments.

**Smart Cane System | Alameda County Science & Engineering Fair** **Aug 2024 - Jun 2025**

- Worked with a team of three to build an environmentally-friendly smart cane system and accompanying mobile app to assist seniors and prevent falls. Won 1st place in ACSEF and moved on to CSEF 2025.
- Coded in C++ and Android Studio. Fitted a cane with ultrasonic sensors, thermoelectric generators, a Bluetooth module, haptic motors, a gyroscope, and a pulse sensor.
- Gained further experience in working with a team, giving product pitches, and handling hardware/software components.

**Student | BlueStamp Engineering** **Jul 2024 - Aug 2024**

- Designed and developed a phone-controlled robot arm using servos, laser-cut pieces, and C++ code.
- Wrote and presented a robot arm demo to an audience.
- Learned how to handle hardware, project management, iterative modifications, and complex circuit concepts.

**Student | Fundamentals of Engineering at UC Berkeley** **Jul 2023 - Aug 2023**

- Learned foundational engineering concepts, created Matlab simulations, and designed/performed stress tests.
- Made a Stirling engine, built a spaghetti bridge, and ran simulations to test durability.

**Director, Writer, Cameraman | Video Production at Stanford** **Jun 2023 - Jul 2023**

- Storyboarded, wrote, directed, and edited my short film within one week.
- Gained experience in filmmaking, leading and directing a team, and utilizing Adobe Premiere.

## SKILLS AND INTERESTS

- **Languages:** Java, Python, C++, HTML/CSS/JS, Matlab
- **Technical:** Web Development, Digital Electronics, Soldering, Graphic Design, 3D Modeling with Sketchup/Tinkercad
- **Professional:** Video Production, Adobe Suite, Office 365, Google Drive
- **Hobbies:** Piano, Wrestling, Reading, Sketching