

Misha Garg

ACADEMICS

Carnegie Mellon University, Pittsburgh, PA | Major: B.S in Information Systems

Relevant First-Year Coursework: Principles of Imperative Computation, Designing Human-Centered Software, Information Systems Milieux, Concepts of Mathematics, Matrices and Linear Transformation, Cognitive Psychology

Las Positas College, Livermore, CA (June 2023 – May 2024) | GPA: 4.0 | Dual enrollment with high school

Coursework: Intro to Computer Programming, Multivariable Calculus, General Psychology

Amador Valley High School, Pleasanton, CA (May 2024) | GPA: 4.33

WORK EXPERIENCE

Student Tutor, Pleasanton Unified School District (Sep 2022 – May 2024)

- Tutored 9-12 students in Math (through Calculus), Chemistry, English, and Computer Science after school

PROJECTS

Study Group Finder

- Developed a platform that allows Carnegie Mellon students to connect with peers and form study groups

Pneumonia Detection Software

- Developed a machine-learning model that detects pneumonia from X-rays using convolutional neural networks, achieving an accuracy score of 81.6%; Programmed using Python, TensorFlow, and Keras

Raspberry Pi Projects

- Developed a motion sensor by creating a circuit using a PIR sensor and piezo buzzer then programmed the Raspberry Pi using Linux commands
- Created a security camera and programmed using Linux terminal commands

Cyberbot Holiday Parade with Drone Show

- Built and programmed four Parallax Cyber:Bot robots to traverse a parade route using a distance sensor; Ended the parade with an LED drone show; Live-streamed the parade on a website

Game Design

- Developed 5 games (Collection, Maze, Choose Your Own Adventure, Pong, and Platform) using JavaScript, HTML, and CSS

Android App Development

- Programmed and deployed an Android calculator app in Kotlin using Android Studio

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript
- **Software Tools:** Git, Adobe InDesign, Adobe Illustrator, Adobe Photoshop, Canva, iMovie

EXTRACURRICULAR & LEADERSHIP

Scotty Labs at CMU, Girls Who Code Treasurer and Instructor at Amador Valley (2023-24), AI Scholars Program at Inspirit AI, Girls Who Code Summer Immersion Program, Girl Scout Gold Award, Meaningful Teens, Link Leader, Soccer, Fine Art