

EDUCATION

Carnegie Mellon University: August 2024 - Expected graduation May 2028 Pittsburgh, PA

- Bachelor of Science in Information Systems & Software Engineering
- **Relevant Coursework:** 15-112 Fundamentals of Programming & CS, 21-127 Concepts of Mathematics, 67-250 Information Systems Milieux

California Academy of Math and Science: August 2020 - June 2024 Carson, CA

- Completion of the Computer Science and Biotechnology pathways
- **Relevant Coursework:** AP Calculus BC, AP Computer Science A, AP Computer Science Principles, AP Research, AP Physics, AP Seminar, Introduction to Computer Science, Cybersecurity, Introduction to Engineering Design

PROJECTS

Stellar Sprint | Term Project for 15-112: Fall 2024 Pittsburgh, PA

- Programmed an interactive Flappy Bird-style game in Python where players control a spaceship to navigate space
- Implemented multi-level difficulty, keyboard/hand-tracking controls and single-player, two-player, and player vs. AI modes.

112 Run | CMU Hack112 Hackathon: Fall 2024 Pittsburgh, PA

- Programmed a Temple Run-style game where players collect coins and dodge obstacles and integrated computer vision
- Implemented an interactive learning component, requiring players to answer Python conceptual/practice questions as they progress.

INTERNSHIP EXPERIENCE

Intern, CSUDH STEM Technology Active Learning Program: June 2023 - July 2023 Carson, CA

- Developed AI image classification bot from scratch. Used Python, Tensorflow, and Keras APIs and machine learning to predict the content of an image after analyzing it. Enhanced coding skills and problem-solving abilities.
- Presented a scientific research poster to the Head of the Physics Department and Masters students of CSUDH

Lundquist Institute Online High School Summer Fellows Research Program: July 2023 - August 2023

- Collaborated with Ph.D. student Harvey Perez to complete a research paper regarding "Schizophrenia".
- Introduced scientific research to the Lundquist Board of Education and students in the program at the culmination ceremony.

TECHNICAL AND LEADERSHIP EXPERIENCE

President, California Scholarship Federation: May 2022 - May 2024 Carson, CA

- Organized and led community service events and bi-weekly club meetings, grew club 180% to 70 members since elected
- Led book/toy drives/fundraisers: donated 300 cans/120 toys to the Salvation Army, 215 cards sent to a non-profit, raised \$730

Designer, Programmer, VEX Robotics: April 2022 - May 2024 Carson, CA

- Competed in 11 Region 4 VEX Robotics competitions 2022-2024
- Designed, built, and programmed a robot that collected discs from the ground using an intake, shoot the discs leveraging a flywheel, roll rollers on the field, and ran a 15-second autonomous code that allows a robot to operate without driver control
- Developed and began yearly mentorship program for VEX interns to educate them on VEX basics

Founder, CAMS Code4Change Club: January 2023 - June 2024 Carson, CA

- Prepared lesson plans to teach Python to elementary school students
- Coordinated with local elementary schools to conduct coding workshops once a week to teach various coding topics

Historian, California Academy of Math and Science KEY Club: May 2022 - May 2024 Carson, CA

- Managed and publicized meetings through social media, led volunteer events for the ~96 members of CAMS KEY Club

News Editor, Media Coordinator, Division 19 North KEY Club: May 2022 - May 2024 Torrance, CA

- Planned and publicized service events on Instagram to the 10 schools of D19N KEY Club by designing ~200 graphics to post
- Designing, authoring, and publishing monthly newsletters for the ~500 members of D19N KEY Club
- Trained over 600 KEY Club officers in how to design and publicize events to increase member participation

SKILLS

- Technical: Python, Java, Xcode, Object-Oriented Programming, Visual Studio Code, Tensorflow APIs, Keras APIs, CAD
- Languages: Native fluency in English and Hindi, conversational Spanish.

AWARDS AND HONORS

- VEX Robotics Judges Award (Mcbride Spin Up 2023)
- Key Club Division 19 Editor of the Year (2023 & 2024)
- CNH Key Club Distinguished Division Newsletter (2024)
- AP Research Capstone Diploma (2024)
- California Scholarship Federation Sealbearer (2024)
- AP Scholar with Honors (2023)