

# David Saldubehere

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## EDUCATION

**The Pennsylvania State University | Schreyer Honors College**

**University Park, PA | 4.0 GPA**

*College of Engineering | B.S. in Computer Science*

*Class of 2026*

*Eberly College of Science | B.S. in Mathematics*

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## RELAVENT PROJECTS

### Topian

- Cross-platform free music streaming app developed with React Native, Flask, Various Python API's. Currently at pre-release stage of development
- React Native frontend optimized for iOS and Android. Backend deployed on pythonanywhere with Flask

### Auto-Typer

- Desktop application designed to assist in coding tutorials, classes, and my LA office hours. Prewritten scripts can be customized and automatically typed into a specified area to aid in instruction. Developed in Python, HTML5, CSS, JavaScript, and packaged with pyinstaller

### vrCam

- Robotic arm with camera module controlled by user's head movement. Uses a Flask server and Open CV4 deployed on a Raspberry Pi to provide a real-time image to a VR headset. Gyroscope activity is sent to the robotic arm controlled by an Arduino with C++ and used to move the camera module according to the degree of the user's head movement. Results in a 180-degree bidirectional virtual space representation of a physical location

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## LEADERSHIP & INVOLVEMENT

**Mifflin County High School Valedictorian**

*May 2022*

**Mifflin County High School Senior Class President**

*October 2021-June 2022*

- Organized numerous school events, dances, graduation, fundraisers, etc. Spoke at academic events and advised faculty on school policy issues

**Pennsylvania State University 3D Printing Club**

*August 2022-Present*

*Event Coordinator*

- Planned club collaboration events, 3D modeling challenges, and recruiting methods. Main goal is to help others get involved with 3D printing and direct the club's 3D education regarding the 100+ members' preferences
- Managed event finances and coordinated outside sources for entertainment purposes and speaker events

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## EXPERIENCE

**Walmart**

**Lewistown, PA**

*Produce Associate*

*June 2021-Present*

- Maintained current knowledge of shelf planograms and end caps to merchandise products
- Received and unloaded new items upon delivery and checked products for damage and order accuracy
- Helped customers complete purchases by moving heavy items, collecting payments and bagging items
- Managed a safe, neat, and clean working environment and closely monitored for wet floors or other hazards

**Pennsylvania State University Computer Science Department**

**University Park, PA**

*Grader for Data Structures and Algorithms course*

*January 2023-Present*

- Graded exams and homework submissions for Penn State's University Park CMPSC 132 course sections
- In the process of becoming a Learning Assistant for the course's summer session

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## HONORS, SKILLS & INTERESTS

**Honors:** National Honor Society (President), President's Award for Educational Excellence, Margaret C Miller Scholarship

**Languages:** Proficient in Python, C#, Java, and JavaScript; Experience with Bash, PowerShell, C/C++ (microcontrollers)

**Technologies:** CSS, HTML, Git, React.js, React Native, AWS, Django & DRF, Flask, Open CV4, MySQL, PostgreSQL

**Interests:** Soccer, Expert in 3D printing technologies, Microcontrollers (Raspberry Pi, Arduino), Learning Spanish, Pizza