

# Andrew Van Ostrand

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## EDUCATION

Lehigh University, Bethlehem, PA

Graduation: May 2027

**Bachelor of Science: Computer Science & Business**

Minor: Environmental Science

Related Coursework

Programming and Data Structures, Systems Software, Discrete Structures and Algorithms, Statistical Methods, Organizational Behavior

## RESEARCH/LABORATORY/PROJECT EXPERIENCE

### Lehigh Hacks for Health - LCRS

Mar 2024 – Mar 2024

- Spearheaded the development of a predictive model leveraging Google Cloud's Vertex AI and AutoML for tabular data analysis, designed to assess lung cancer risk from user-provided medical histories and relevant factors.
- Engineered a cost-effective lung cancer pre-screening tool to enhance accessibility for individuals in lower-income communities, addressing financial barriers to early diagnostic procedures.
- Demonstrated the potential of the model to significantly improve early detection rates of lung cancer through a user-friendly interface, contributing to preventive healthcare measures.
- Awarded as the Best First-Year Solution: Recognized as the best solution in the first-year category.
- Technologies Used: Google Cloud: Vertex AI - AutoML, Datasets; Google Compute Engine

### Leh-Laf Hackathon - ASL for the Community

Nov 2023 – Nov 2023

- Developed an image recognition model using Amazon SageMaker to translate ASL signs into text and speech, enhancing communication for the deaf community.
- Overcame challenges in model training due to time constraints, focusing on key ASL signs (A, B, C) for initial implementation.
- Awarded for Best AWS Integration: Recognized for exceptional use and integration of Amazon Web Services in the project.
- Utilized Amazon Polly and Turtle Graphics for real-time audio feedback and visual representation of signs.
- Technologies Used: Amazon Web Services, Polly, Python, S3, SageMaker.

## RELATED EXPERIENCE

### Computer Science Teacher

Oct 2020 – Present

Mind Crafters Robotics, Los Angeles, CA

- Facilitated daily robotics and computer science classes for elementary and high school students.
- Mentored Python, Java, and C++ using different platforms to connect with students.

## CAMPUS and COMMUNITY INVOLVEMENT

Vex Worlds Judge (Judged 200 teams at the world's largest robotics competition)

May 2022 – Current

CSBA (Computer Science & Business Association)

Aug 2023 – Current

SASE (Society of Asian Scientists and Engineers)

Aug 2023 – Current

ABC (Asian Business Community)

Aug 2023 – Current

Hispanic Center of Lehigh Valley Volunteer

Oct 2023 – Current

## TECHNICAL SKILLS and LANGUAGE PROFICIENCY

Computer skills: Java, Java Script, HTML, CSS, Python

Software: Word, Excel

Language proficiency: English, Spanish