

# Jack J. Sangl

sangljack06@gmail.com | (814)-529-3575 | LinkedIn: jacksangl | GitHub: jacksangl

## EDUCATION

---

**Penn State Erie, The Behrend College**

**Erie, Pennsylvania**

*B.S. in Computer Science*

*Expected Graduation, May 2028*

- **Concentrations:** Applied Mathematics and Computer Programming
- **GPA:** 4.00/4.00
- **Related Coursework:** Fundamentals of C++ Programming, Introduction to Computer Applications, Integral Calculus

## PROJECTS

---

### Runoff Election Simulator (C)

- Command-line application that simulates a runoff election process.
- Users can input candidate names and voter preferences; the program performs multiple rounds of voting to determine the winner based on majority rule, handling ties and eliminating candidates with the fewest votes.
- Provides a clear and efficient method to handle complex voting scenarios until a majority winner is identified.

### Caesar Cipher Encryption (C)

- Command-line tool for encoding and decoding messages using the Caesar cipher technique.
- Shifts characters by a specified number of positions in the alphabet, with functionality to handle shifts beyond the alphabet and non-alphabetic characters.
- Allows users to easily encrypt messages, showcasing basic cryptography principles.

### Image Processing Application (C)

- Developed a function header to apply image processing filters (blur, reflection, grayscale, and edge detection) to BMP files.
- Implemented algorithms to manipulate and process images while maintaining performance and quality.
- Enhanced understanding of image processing techniques in C.

## SKILLS

---

**Programming:** C, C++, Python

**Tools:** GitHub, VSCode, Microsoft VS Code, Word, Excel, Linux, Windows

## ACTIVITIES AND LEADERSHIP

---

### Computer Science Club

**Erie, Pennsylvania**

*Active Member*

*August 2024 – Present*

- *I joined as a freshman to develop skills in programming, collaborate with peers on tech projects, and participate in hackathons.*

### Future Business Leaders of America

**Erie, Pennsylvania**

*State Qualifier*

*Fall 2023- June 2024*

- *Qualified for the Pennsylvania FBLA State Competition by demonstrating leadership skills and strategic thinking in the Organizational Leadership category.*

## **EXPERIENCE**

---

### **Wegmans Food Markets**

**Erie, Pennsylvania**

#### *Meat Customer Service*

*April 2024 –August 2024*

- *Accomplished increased total traffic measured by sales based on giving excellent customer service to each customer.*
- *Enhanced customer satisfaction by providing personalized service and product recommendations to increase repeat business and build customer loyalty.*
- *Streamlined service efficiency by assisting in maintaining a well-organized display and inventory, resulting in improved product availability and reduced wait times for customers.*