

# WILLIAM J. SHULTZ

[william.shultz2017@gmail.com](mailto:william.shultz2017@gmail.com) | [shultzwilliam.github.io](https://github.com/shultzwilliam) | [linkedin.com/in/wilshultz/](https://www.linkedin.com/in/wilshultz/)

## EDUCATION

### **Bachelor of Science (B.S) in Computer Science and Engineering**

The University of Toledo, Toledo, Ohio

*August 2017 – December 2021*

- Honors and Awards: Magna Cum Laude, Lambda Sigma Honor's Society, Levis Leadership Award
- Relevant Coursework: Object-Oriented Programming, Data Structures, Software Engineering, Artificial Neural Networks, Cybersecurity, Hardware Assurance and Trust, Engineering Statistics

## WORK EXPERIENCE

### **System Integrator I**

Facebook Reality Labs

*April 2022 – Present*

- Managed and actively configured complex systems within a hybrid Windows/macOS/Linux environment
- Created and modified software to streamline data collection and automation using Python and Bash
- Performed Root-Cause analysis to quickly troubleshoot and repair issues within computer networks

### **Full Stack .NET Developer Co-op**

Precision Castparts Corporation

*May 2020 – August 2020*

- Created and maintained custom software applications for use in a fast-paced, manufacturing environment using C#, MySQL, and HTML/CSS
- Implemented employee work-hour reporter, comparing employee worktimes to average part development times, decreasing product development times by up to 1-5% per part
- Developed effective communication within a team-based ecosystem during the COVID Pandemic

### **Undergraduate Researcher**

The University of Toledo

*May 2019 – August 2019, May 2021 – August 2021*

- Developed a method for calculating reflections off solar arrays using Python, numPy, Pandas, Anaconda
- Had research presented at IEEE's 47<sup>th</sup> Photovoltaic Specialist Conference, published in September 2020
- Contributed to a \$30 million project funded by the U.S. Air Force Research Lab, titled "Assured Digital Microelectronics Education and Training Ecosystem"

## PROJECTS

### **Facial Recognition Application (Python)**

- Created a console application which recognized faces based off a custom database
- Applied knowledge on Convolutional Neural Networks, facial detection, and feature extraction

### **Air 3550 Airline Manager Application (C#, Excel)**

- Desktop application used to search and purchase flight tickets, as well as manage the airline system
- Users can create accounts, buy and refund plane tickets, and use reward points for purchasing flights

## ADDITIONAL SKILLS

- Programming Languages: Python, C#, SQL, Java, VHDL, C/C++, HTML, CSS, JavaScript
- Software: Visual Studio, Visual Studio Code, Bash, Virtual Box, Docker, Vim, Git, GitHub, Anaconda
- Additional Skills: experience with web-development, APIs, proofreading research, technical documentation, Agile SDLCs, proficient in Spanish and Japanese