# Leo Berman
Computer Engineer

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## Professional Summary

Emerging Computer Engineering graduate with a drive to utilize problem solving in programming. I'm currently seeking to apply my skills and experience to a development role with a focus on software development.

## Education

**Temple University**                                                      **Philadelphia, PA**
BS Computer Engineering                                          August 2021 – December 2024
- GPA: 3.97
- Dean's List, IEEE HKN Honor's Society

## Languages & Technologies

**Languages:** Python, C/C++, Assembly (AVR, MIPS), VBA, Bash/Shell, HTML/CSS, JavaScript
**Technologies:** Git, AWS (<u>Cloud Practitioner Certified</u>), Linux (Debian) , Docker, Atmel, FPGA (Xilinx), SOC (Zybo), AutoCAD, Jira, GDB, FreeRTOS, SQL, MongoDB

## Experience

**Automation Engineering Intern**                              **May 2024 – August 2024**
Ezsoft. Inc                                                                 Malvern, PA
- Programming component-based software for PLCs (Programmable Logic Controller) for applications in industrial food & beverage and pharmaceuticals to ISA-88 and ISA-95 standards
- Developing VBA applications for on-site DDE operations and internal Python tools for high volume code changes and in-program error checking
- Performing on-site visits to investigate high pressure system failures and supervise new hardware installations and software integration

**Research Assistant**                                               **March 2024 – Current**
Dr. Samuel Rosen's BDC Research Lab                              Philadelphia, PA
- Utilizing Pandas, Beautiful Soup, Pyppeteer, Selenium, and Requests Python libraries to scrape Schedule of Investment tables from the SEC
- Helping to manage RA teams by implementing Python code standards based on PEP8
- Successfully implemented novel approach using cell element sizes to improve deliverable time by 400% from 24+ hours to less than 6 hours

**Research Assistant**                                               **May 2023 – August 2023**
Dr. Jim Napolitano's Nuclear Physics Research Lab               Philadelphia, PA
- Collaborating with physicists to reduce error rate to 0.042 % for a portion of the MOLLER (Measurement Of Lepton Lepton Elastic Reaction) experiment
- Developing Python scripts to write time and wavelength spectrums for emulating deadtime
- Debugging WaveDump, an open-source data collection software written in C, to automate data entry from FPGA digitizers directly to external disks

## Projects

**Breast Cancer Digital Pathology System** – Working with machine learning specialists to design novel Machine Learning systems for breast cancer diagnosis (<u>GitHub</u>)
**Upcycling Treadmill to Web-Controlled Walk Pad** – Converting treadmill to low profile walk pad controlled via web interface (<u>GitHub</u>)

## Mentorships

**Science Fair Judge:** The Langley School | McLean Virginia
**Mathematics & Physics Tutor:** Algebra | Calculus | Statistics | Classical Physics