

# Asher Lieber

315 West 99<sup>th</sup> Street Apartment 1C  
New York, New York 10025  
646-319-5102  
asherlie@buffalo.edu  
<https://github.com/asherlie>

## Education

### University at Buffalo

- B.S. in Computer Science, Expected May 2019
- Minor in Jewish Studies

## Skills

- **Programming languages:** C, C++, Python, Java, SML, Haskell, JavaScript
- **Tools:** Git, Valgrind, GDB, Gprof, Gcov, CUnit, Flex & Bison
- Multithreaded programming
- Data structures
- Experienced with GNU/Linux

## Experience

### Work Experience

- Summer intern at Architechtronics (2018)
  - Developed projects for Funkey hardware
  - Helped create an online Javascript editor that runs code on microcontrollers and has p5js functionality
- Summer Creative Engineer at Adafruit Industries (2017)
  - Developed projects and relevant documentation for the Adafruit Learning System with a focus on the Python programming language
- Flight Software Developer at the University at Buffalo Nanosatellite Laboratory (UBNL) (2016-2017)
  - Worked on analog to digital conversion interface for Broad-spectrum Radio Interference Analyzing Satellite (Linksat)
  - Worked on command queuing and redundant queuing for Glint Analyzing Data Observation Satellite (Glados)
  - Streamlined testing infrastructure
- Lifeguard at JCC Manhattan (2014-2016)
- Research intern at The Merrin Gallery, NYC (2013)

### Leadership Positions

- Treasurer of the University at Buffalo Club Swim Team (2015-2018)
- Linux administrator at the Heschel Coding Club (2014-2015)

## Personal Projects

- memcarve (<http://github.com/asherlie/memcarve>)
  - memcarve is a library for interacting with the virtual memory space of running processes
  - varedit, rose, and memlock (<https://github.com/asherlie/memlock>) make use of memcarve
- varedit (<https://github.com/asherlie/varedit>)
  - varedit is a fast and intuitive to use command line tool for scanning and editing values in the memory of linux processes
- pea (<https://github.com/asherlie/pea>)
  - pea is used to securely create and sign petitions over a multi-user network
- rose (<https://github.com/asherlie/rose>)
  - rose lets users search through values in the memory of linux processes using regular expressions
- more projects can be found at <https://github.com/asherlie>