

Troy Liebel

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Education

- 2013–2017 **BS, Computer Science**, *University at Buffalo*, Provost Scholarship.
- Operating Systems - Implemented **Linux Kernel** operations, structures, and syscalls, **C**:
 - synchronization primitives (locks, semaphores, condition variables).
 - file system interface (file handle structure, open, close, read, write, lseek).
 - process and multiprocess support (process structure, fork, execv, waitpid).
 - virtual memory (page structure and allocation, address translation, TLB management).
 - additional details at ops-class.org.
 - Software Quality in Practice - hands on with programming tools and techniques, **C**, **Java**:
 - in-depth use of **git** in multiple team environments and how **git** functions at a low level.
 - exposure to tools for debugging, testing, memory management, and code coverage.
 - Other notable courses: Software Engineering, Modern Networking, Machine Learning, Data Intensive Computing, Programming Languages, Algorithms, Data Structures.

Work Experience

- 2016–2017 **Computer Science Teaching Assistant**, *University at Buffalo*.
- CSE 442 - Software Engineering, *Fall 2016*:
 - simulated an **Agile/Scrum** work environment via weekly meetings and sprints for multiple teams of students as they developed a product for the entirety of the semester.
 - enforced **git** best practices and branching habits for all teams and members.
 - assisted teams in finding useful frameworks, services, and tools.
 - helped with team dynamics and relationships in difficult situations.
 - CSE 115 - Intro to Computer Science, *Spring 2017* - **Java**, **Python**:
 - introduced students to **object oriented programming** concepts in weekly lab sessions.
 - hosted weekly **Python** tutorials to highlight how to teach oneself a new language and an introduction to **Unix command line** and **Vim** to prepare students for the future.
- Oct 2014– **Advanced Repair Agent**, *Geek Squad, Best Buy*.
- Present Achieved Quarterly MVP and Employee of the Month on multiple occasions, Work with a small team of other repair agents to handle repairs of all the client computers, Communicate directly with clients about the status of their repair, Platinum Certification.

Projects

- Nov 2016 **UB Hacking Finalist**, *Spinbot*, **C**, **Python**.
Persistence of vision display created from recycled optical drives, LED's and Arduinos, support for live message updates via a custom Slack integration and bluetooth.

Languages, Tools, and Skills

- Fluent C/C++, Python, Java, Git, Atom, OOP, Linux Development Environment, Windows.
Familiar Numpy/Scipy, GoLang, R, Bash, yaml, Erlang, Hadoop, Vim, Eclipse, Wireshark.

Miscellaneous

- 2010–2013 **Ski Instructor**, *Holiday Valley*, Ellicottville, NY.
Level I Alpine Certification with the Professional Ski Instructors of America, instructed students of varying skill levels in group and private sessions, mentored junior instructors.