Alexander Osler

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https://github.com/aposler

Education:

Worcester Polytechnic Institute (**WPI**), Worcester, MA – Degree Candidate – May 2020
Bachelor of Science in Computer Science, Current term GPA: 4.00; Cum. GPA: 3.35/4.00
Related Courses: Networking Class, Machine Language Class, Class in Operating Systems, Algorithm's and basic Encryption information, Class in Web and Server based Applications

Projects:

Webware: Computational Technology For Network Information Systems – WPI, Fall 2018:
Created a visualization of A*, Breadth First, Depth First, and Greedy Best First pathing algorithms, available at: https://a4-aposler.herokuapp.com/. Created a multiplayer, server based snake game available at: https://fp-aposler.herokuapp.com/.

Introduction to Machine Organization and Assembly Language - WPI, Fall 2017:
Created a memory cache simulator to record and interpret memory access traces from Valgrind (load, store, modify). The analysis examined the number of hits and misses created by various combinations of set numbers, associativity, and bytes per cache line.

C/C++, Systems Programming Concepts, Computer Networks - WPI, Spring and Fall 2017:
Collaborated on projects utilizing C and C++ that focused heavily on memory management, pointers, arrays, input/output, HTTP formatting, and networking basics.

Work Experience:

MathWorks – Technical Intern, Natick MA, Summer 2018
- Worked as key team member designing UI and defining project scope
- Implemented project plan to create responsive, real time visualizations of large data sets
- Collaborated with other teams in implementing proprietary graphing software
- Extensive JavaScript and MatLab code experience

Communicative Health Care Associates, Inc – Office IT, Waltham MA, Summers 2016 and 2017
- Took the initiative and wrote an office automation application to expedite data entry and gathering tasks. Was promoted from office assistant to IT specialist as a result of this effort
- Acted as technical liaison between Mass Health EDI department and an independent software company which was creating a tool to allow online claim submission to Mass Health. Debugged and verified the program
- Authored instruction manuals and trained inexperienced computer staff on automated processes

Skills:

JavaScript, MatLab, C/C++, Dojo Framework, Agile, Java, Linux VMs, gcc/g++, perforce, git, Bash Shell, Racket, Microsoft Office, VBA

Activities:

President Officer, Super Smash Brothers Club, WPI, Sept. 2017 - Current
Treasurer Officer, Super Smash Brothers Club, WPI, Sept. 2017 - Aug. 2018
Vice President, Video Game Club, ABRHS, Aug. 2015 - June 2016

Honors and Awards:

Community Service Award, Acton Boxborough Regional High School (ABRHS) **-** Dec. 2015