Charles Lovering

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OBJECTIVE: Summer internship in Computer Science.

EDUCATION:

Worcester Polytechnic Institute (WPI), Worcester, MA
Bachelor of Science in Computer Science, GPA **3.93/4.00 (4.00 in Major)**, May 2018
Acton-Boxborough Regional High School (ABRHS), Acton, MA
High School Diploma, GPA 3.80/5.00, June 2014
Related Coursework:
Software Engineering, Operating Systems, Theory of Computation*, Algorithms, Foundations of Computer Science*, Database Systems*, Human-Computer Interaction*, Object-Oriented Design, Systems Programing, Machine Organization and Assembly Language. (*May 2016)

SKILLS**:**

Languages:	Java, C, Python, Bash, Racket, JS, Html, CSS, Rative.js, jQuery, Bootstrap
Operating Systems:	Mac, Ubuntu (Linux), Windows
Applications:	Intellij, Git, EMACS, Vim, Eclipse, Sublime Text, NetBeans, GitHub, Maven, Tomcat, Bamboo, Virtual Box

CLASS PROJECTS:

Software Engineering, WPI, October 2015 – Present
- Lead large team in organization, structure design and software development in the creation of a Mapping Tool application using Java, UML and the Agile process.
- Built polished UI of the mapping tool using JavaFX, integrating teammates' work into a final product.

Operating Systems, WPI, August – October 2015
- Developed a system call to report process statistics
- Designed and developed a shell simulator capable of background task execution
- Injected system calls into Linux kernel to monitor user activity

Algorithms, WPI, October 2015 – Present
- Developed a three-way merge sort, a priority queue, and an anagram solver
- Implemented quick, heap, and merge sort

Object-Oriented Design, WPI, October – December 2014
- Designed, developed and tested java code to organize a city network structure
- Applied recursion, memoization, and proper code encapsulation to develop the program

PROJECTS: March 2015 – Present
- Developed an application that solves any system of equations using the Gauss Jordan Algorithm
- Used JavaFX to build games 2048 and Snake.
- Used Python to create a set of methods that implement discrete mathematical functions
- Used JavaScript, Html and CSS to create personal website.

WORK EXPERIENCE:

Software Engineering Intern, Imagitas, June – August 2015
- Developed, maintained, and enhanced build and deployment scripts
- Led meetings teaching colleagues how to effectively utilize Git and bamboo
- Enhanced automatic testing of source code by writing selenium tests using a robot framework

Computer Science Teaching Assistant, WPI, August – May 2016
- Led labs, and held regular office hours, teaching and helping students.

ACTIVITIES:
- Ice Hockey Club, WPI, September 2014 – Present
- Cyber-Security Club, WPI, September 2015 – Present
- Academic Decathlon, ABRHS, September 2013 – April 2014

AWARDS:
- Charles Thompson Award 2014-2015
- 9th at Academic Decathlon Nationals, Hawaii, April 2014
- Gold at the Academic Decathlon State Competition in Mathematics, Economics, English Language Arts, Social Science, Speech, and Bronze in Music, Massachusetts, February 2014