

OBJECTIVE: Internship involved in machine learning, front-end web development, or computer security

EDUCATION: Worcester Polytechnic Institute (WPI), Worcester, MA
Bachelor of Science in Computer Science, GPA 3.97/4.00 Feb 2018
Masters of Science in Computer Science, GPA 4.00/4.00 May 2018

WORK EXPERIENCE:

- Software Engineering Intern, Network Security, Silicon Labs** May – July 2016
- Built a fuzz-testing engine to test the security of the Thread protocol stack
 - Developed an internal plugin to test cache-performance of a micro-chip
- Software Engineering Intern, DevOps, Imagitas** June – Aug 2015
- Developed, maintained, and enhanced build and deployment scripts using python, perl and git
 - Enhanced automatic testing of source code by writing selenium tests using a robot framework
- Computer Science Teaching Assistant, WPI** Aug 2015 – Present
- Led labs, held office hours, graded homework and wrote automatic tests.

RESEARCH EXPERIENCE: March 2015 – Present

- Dynamic Time-Warping Algorithms, WPI** Aug 2016 – Feb 2017
- Research cutting-edge algorithms, building an interactive platform, and writing academic paper
- Research Assistant, Neuroscience Lab, WPI** June – Aug 2013
- Collected data using PCR, analyzed data, aiming to diagnose a connection to a gene that humans share with Drosophila (fruit flies), to Alzheimer's disease

CLASS PROJECTS:

- Software Engineering, WPI** Oct – Dec 2015
- Led 9-person team, building backend for a mapping tool to find the way between locations at WPI
 - Built a polished and dynamic UI a mapping tool using JavaFX
- Operating Systems, WPI** Aug – Oct 2015
- Designed and developed a shell simulator capable of background task execution
 - Injected system calls into Linux kernel to monitor user activity
- Local Area Networks, (grad), WPI** Jun – Jul 2016
- Developed socket-level C chat client for multiple concurrent users
 - Built interactive interface, and a secure and scalable server infrastructure
- Programming Languages, WPI** Apr – May 2016
- Built a type-inferencer
 - Built an object-oriented language with classes and a language with lists and exceptions

INDEPENDENT PROJECTS: March 2015 – Present

- Designed and built a platform for visual displays, using js, HTML5 canvas, React Jul 2016
- Utilized JavaScript, Html, CSS, Bootstrap, jQuery and Ractive.js to create a personal website Feb 2016
- Built an application that solves any system of equations using the Gauss Jordan Algorithm Apr 2015

SKILLS:

Languages: Java, C, js, Python, Racket, Bash, SQL, Haskell, C++

Tools: Git, Atom, EMACS, React, Latex, Rative.js, jQuery, Virtual Box, Bamboo, IntelliJ, Eclipse

Other Related Coursework:

Programming Languages, Theory of Computation, Algorithms, Foundations of Computer Science, Database Systems, Systems Programming, Machine Organization and Assembly Language, Network Security*, AI*, Data Mining*, Machine Learning*, A. of Algorithms*, I. Data Science*, Data Analytics & Statistical Learning*