

# Jacob M Potter

Software Engineer

<b>OBJECTIVE</b>	Obtain a challenging computing co-op or internship for the spring of 2019.	
<b>CONTACT</b>	jmp1617@rit.edu (413) 335-7767	jacob-potter.com github.com/jmp1617
<b>EDUCATION</b>	<b>Rochester Institute of Technology</b> , Rochester, NY <i>Bachelor of Science</i> , Computer Science, May 2021 <i>Dean's List</i> - Golisano College of Computing and Information Sciences	<b>2016-2021</b> GPA: 3.50
<b>PROJECTS</b>	<b>IPv4Lib (C)</b> <b>Active Project</b> Library and payload injection framework for the IPv4 spec. Currently supports IPv4, Ethernet II (including fcs), and the TCP and UDP suite. Loads in a packet from either a file or a raw socket (bypassing the normal TCP/IP protocols).  <b>Deepnet (C, OpenGL)</b> <b>2017</b> Multi-purpose four layer CLI deep learning neural network. Uses backpropagation and sigmoid activation. Features include importing and exporting trained synapses and live OpenGL synapse delta visualization.  <b>MIPS R2K module analyzer/editor (C)</b> <b>2017</b> Reads all sections of R2K load or object module into dynamic memory, extracts the data, and then displays in human readable form. Provides the option to edit the binary data in place and then write it out.  <b>L.L.U.V. (Python 3.5)</b> <b>2017</b> L.L.U.V. (Linux Live USB Vending) is an easy to use front-end TUI for the Linux command dd. Published on Python Pip. Uses npyscreen for graphics.	
<b>SKILLS</b>	<b>Languages:</b> C 99, Python (2.7-3.5), Java 8, MIPS Assembly (32 bit). <b>Networking and Security:</b> Cisco-3550, Wireshark, Nmap, Metasploit. <b>Compilers and Tools:</b> GCC, Clang, GDB, Vim, Valgrind, Git, JetBrains Suite. <b>Operating Systems:</b> GNU+Linux, Mac OSX, Windows, IOS, Android.	
<b>EXPERIENCE</b>	<b>Receiving Department</b> <b>Summer 2017</b> <i>Whalley Computer Associates</i> Southwick, MA Responsible for receiving and inventory of high dollar value computational products for customers. Customer base ranged from large corporate institutions to medium computing security companies. Worked in a team based corporate environment.  <b>IT Intern</b> <b>Summer 2016</b> <i>Belchertown IT Department</i> Belchertown, MA Tasked with repairing computational devices, imaging and setting up devices, as well as assisting school staff with both hardware and software issues. Planned and implemented the student help desk system for the high school.	
<b>ACTIVITIES</b>	<b>Computer Science House (organization)</b> <b>Current Member</b> A special interest house at RIT which encourages group collaboration on technical projects and provides access and funds to develop those projects. <b>Events:</b> CRTS (Red team - Blue team), Opcommation (Networking Hackathon).  <b>Other Interests/Activities</b> MLH Brick Hack, Geocaching, Snowboarding, Archery, Lock picking, Biking, Hiking.	