

# Jacob M Potter

Software Engineer

OBJECTIVE	Obtain a challenging and rewarding software engineering internship or coop.	
CONTACT	jmp1617@rit.edu (413) 335-7767	jacob-potter.com github.com/jmp1617
EDUCATION	<b>Rochester Institute of Technology</b> , Rochester, NY <i>Bachelor of Science</i> , Computer Science, May 2021 <i>Minors</i> : Computing Security, Archeology <i>Dean's List</i> - Golisano College of Computing and Information Sciences	<b>2016-2021</b> GPA: 3.44
EXPERIENCE	<b>Cisco</b> <i>Software Engineering Intern</i> Part of the Cisco DNA team (their new intent based intuitive network) tasked with improving core automation, mainly focusing on telemetry, topology, and integrity verification services. Technologies Used: Java 8, Maven, Jenkins, Java Spring, Git, IntelliJ, PostgreSQL.	<b>Summer 2018</b> San Jose, CA
PROJECTS	<b>IPv4Lib</b> (C)( <a href="https://github.com/jmp1617/IPv4PI">github.com/jmp1617/IPv4PI</a> ) 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>Active Project</b>
	<b>Deepnet</b> (C, OpenGL)( <a href="https://github.com/jmp1617/deepnet">github.com/jmp1617/deepnet</a> ) 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>2017</b>
	<b>MIPS R2K module analyzer/editor</b> (C)( <a href="https://github.com/jmp1617/lmedit">github.com/jmp1617/lmedit</a> ) 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>2017</b>
	<b>L.L.U.V.</b> (Python 3.5)( <a href="https://github.com/jmp1617/LLUV">github.com/jmp1617/LLUV</a> ) 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>2017</b>
COMPUTER SKILLS	<b>Languages</b> : C 99, Python (2.7-3.5), Java 8, MIPS Assembly (32 bit), L <sup>A</sup> T <sub>E</sub> X. <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.	
ACTIVITIES	<b>Computer Science House</b> (organization)( <a href="http://csh.rit.edu">csh.rit.edu</a> ) 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>Current Member</b>
	<b>Other Interests/Activities</b> MLH Brick Hack, Electronic Music Production, Snowboarding, Archery, Lock picking, Biking, Hiking, Motorcycles.	