

# Elan Miller

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SUMMARY	Senior at Washington University in St. Louis pursuing a combined bachelors and masters in computer science and seeking an internship for the summer. I particularly enjoy the intersection of mathematics and computer science. Interested in going into software development, data science and analytics, and/or network security.	
EDUCATION	<b>Washington University in St. Louis</b> , St. Louis, Missouri, USA	
	<ul style="list-style-type: none"><li>▪ Bachelor of Science and Master of Science Candidate in Computer Science</li><li>• Second major in Mathematics</li><li>• Cumulative GPA: 3.62 / 4.0</li><li>• Dean's List: Every Semester</li><li>• National Merit finalist award recipient</li></ul>	Aug 2014 – Dec 2018
	<i>Relevant Coursework</i> Linear Algebra, Discrete Math, Proofwriting, Probability and Statistics, Digital Logic and Computer Design, Object Oriented Programming, Cloud Computing With Big Data, Rapid Prototype Development and Creative Programming, Algorithms and Data Structures	
SKILLS	Experience With: Java, Python, C++, Spring, Hibernate, Unix, Bash, Swift, HTML/CSS, Bootstrap, PHP, JavaScript, Angular, SQL, VHDL, Apache, Node, Laravel, Hadoop, MapReduce, Spark, Pig, Hive, Impala, Arduino, Android Studio, Xcode, TCPDUMP, Wireshark, L <sup>A</sup> T <sub>E</sub> X	
EXPERIENCE	<b>Software Engineering Intern</b>	
	Software Engineering Co-op with Intelligrated	Jan 2017 – May 2017
	<ul style="list-style-type: none"><li>▪ Developed, tested and deployed backend software for warehouse execution systems</li><li>▪ Conducted code reviews to ensure software of the highest standard</li></ul>	
	<b>Research Experience for Undergraduates</b>	
	Undergraduate Research Student at University of Nebraska-Lincoln	Jun 2016 – Aug 2016
	<ul style="list-style-type: none"><li>▪ Project: Investigating Data Leaks in Android Applications</li><li>▪ Supervisor: Dr. Qiben Yan</li><li>▪ Created Python and Bash scripts in the Linux OS to download and test the 100 most popular apps in the Android store, as well as 700 apps from a third party Android store</li><li>▪ Captured data leaks from the apps using Tcpdump and Wireshark</li><li>▪ Studied software middleboxes and examined ways that middleboxes can be used to prevent user data leaks among mobile devices</li></ul>	
OTHER WORK EXPERIENCE	<b>Tutor at Washington University</b> , St. Louis, MO	
	Computer Science and Math Tutor	Aug 2016 – Present
	<ul style="list-style-type: none"><li>• Help 5 to 6 students per semester struggling with various computer science and math courses</li><li>• Courses include Introductory Object Oriented Programming, Arduino Programming, Digital Logic, and Discrete Math</li></ul>	
PROJECTS	<b>Game Development</b> , C++	
	<ul style="list-style-type: none"><li>▪ Created a command line game enabling users to play TicTacToe, Sudoku, Gomoku and Checkers. (More projects on github and bitbucket)</li></ul>	
CAMPUS ACTIVITIES	<b>Chabad Center for Jewish Life</b> , Washington University in St. Louis	
	Board Member	Aug 2014 – Present
	<ul style="list-style-type: none"><li>• Coordinate activities such as weekly prayer services and holiday banquets on Passover and Succot</li><li>• Pass out fliers and paint advertisements for events</li></ul>	
LANGUAGES	<ul style="list-style-type: none"><li>▪ English: Native language.</li><li>▪ Hebrew: Intermediate (speaking, reading, writing).</li></ul>	
INTERESTS	Rock Climbing, Hiking, Running, Biking, Guitar and Bass, Cooking, Reading, Connecting with People!	