

# 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

**Washington University in St. Louis**, St. Louis, Missouri, USA

- Bachelor of Science and Master of Science Candidate in Computer Science Aug 2014 – Dec 2018
  - Second major in Mathematics
  - Cumulative GPA: 3.62 / 4.0
  - Dean's List: Every Semester
  - National Merit finalist award recipient

*Relevant Coursework*

Linear Algebra, Discrete Math, Probability and Statistics, Digital Logic and Computer Design, Cloud Computing, 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, MATLAB, R, VHDL, Apache, Node, Laravel, Hadoop, MapReduce, Spark, Pig, Hive, Impala, Arduino, Android Studio, Xcode, TCPDUMP, Wireshark,  $\LaTeX$

## EXPERIENCE

**Software Engineering Intern**

- Software Engineering Co-op with Intelligrated Jan 2017 – May 2017
- Developed, tested and deployed backend software for warehouse execution systems
  - Conducted code reviews to ensure software of the highest standard

**Research Experience for Undergraduates**

- Undergraduate Research Student at University of Nebraska-Lincoln Jun 2016 – Aug 2016
- Project: Investigating Data Leaks in Android Applications
  - Supervisor: Dr. Qiben Yan
  - 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
  - Captured data leaks from the apps using Tcpdump and Wireshark
  - Studied software middleboxes and examined ways that middleboxes can be used to prevent user data leaks among mobile devices

## OTHER WORK EXPERIENCE

**Teaching assistant and tutor at Washington University**, St. Louis, MO

- Computer Science and Math Tutor Aug 2016 – Present
- Help 5 to 6 students per semester struggling with various computer science and math courses
  - Courses include Introduction to Programming, Arduino Programming, Digital Logic, and Discrete Math
- Teaching Assistant for Rapid Prototype Development and Creative Programming Aug 2017 – Present
- Grade projects and answer questions involving the full stack of web development including the use of Amazon Web Services, front and back end design and deploying code to a server

## PROJECTS

**Game Development**, C++

- Created a command line game enabling users to play TicTacToe, Sudoku, Gomoku and Checkers. (More projects on github and bitbucket)

## CAMPUS ACTIVITIES

**Chabad Center for Jewish Life**, Washington University in St. Louis

- Board Member Aug 2014 – Present
- Coordinate activities such as weekly prayer services and holiday banquets on Passover and Succot
  - Pass out fliers and paint advertisements for events

## LANGUAGES

- English: Native language.
- Hebrew: Intermediate (speaking, reading, writing).

## INTERESTS

Rock Climbing, Hiking, Running, Biking, Guitar and Bass, Cooking, Reading, Connecting with People!