

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, 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!