

# Matthew Leeds

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## Education

*The University of Alabama, Tuscaloosa, AL*

August 2013 — May 2017

- B.S. in Computer Science and Applied Mathematics
- Cumulative GPA: 3.61
- Honors College
- Computer-Based Honors Undergraduate Research Program
- The Mallet Assembly

## Honors and Accolades

- National Merit Finalist
- University of Alabama Dean's List, Fall 2013 and Fall 2015
- University of Alabama President's List, Spring 2014
- Computer-Based Honors Fellowship Scholarship Recipient

## Professional Skills

- Proficient in GNU/Linux, git, bash, and gdb
- Languages: Fortran, Java, Scheme, JavaScript, Go, and especially C/C++ and Python
- Moderate experience in web development, Android development, and GTK+ development
- Strengths in CS: cryptography, algorithms, and data structures

## Work Experience

Software Engineering Intern, *Red Hat*

May 2016 — August 2016

- Utilize gdb, GTK+ Inspector, and other tools to debug and improve software
- Add "Search and Replace" functionality to Gnome Builder, a Linux IDE
- Work with free software communities to get my patches accepted into various projects

Lab Manager, *Computer-Based Honors Program*

March 2014 — Present

- Manage a computer lab with Windows, OS X, and Linux machines
- Solve technical problems for students
- Administrate and monitor servers providing various services

## Volunteer Experience

Brigade Captain, *Code for Tuscaloosa*

July 2015 — January 2016

- Lead a team of volunteers working on open source civic technology
- Contribute to software projects on GitHub
- Advocate for open data in city government

Delivery Lead, *Code for Birmingham*

May 2015 — March 2016

- Monitor and coordinate teams working on CFB projects
- Communicate with new and potential members
- Research potentially redeployable projects

Service Chair, *UA Association for Computing Machinery*

September 2015 — January 2016

- Research and publicize CS-related community service opportunities
- Meet with other ACM officers organizing events and activities

Volunteer, *Greener Tide Project*

August 2015 — Present

- Collect recycleables on football gamedays
- Work with UA Recycling, the Green Sports Alliance, and the ESPN Green Team

Volunteer, *Every Move Counts Chess Education Program*

January 2014 — May 2014

- Taught Chess to elementary school kids in the community
- Created and executed a lesson plan on chess notation

## Research Experience

Undergraduate Researcher, *Clemson University*

June 2014 — July 2014

- Developed a linear programming solver in C++
- Built a web interface for modeling heterogeneous networks
- Utilized git, L<sup>A</sup>T<sub>E</sub>X, PHP, JavaScript, and other technologies

Undergraduate Researcher, *University of Alabama*

September 2014 — April 2015

- Worked under Dr. Jeremy Bailin through the Computer-Based Honors Program
- Automated the creation of synthetic images of simulated galaxies using Python scripting
- Solved technical issues with running the SUNRISE radiative transfer code on a supercomputer

Undergraduate Researcher, *University of Alabama*

January 2016 — May 2016

- Worked under Dr. Travis Atkison in the Computer Science department
- Trained a neural network to classify Android malware using TensorFlow
- Wrote Bash and Python scripts to gather, process, and graph data

## Leadership Experience

Vice President, *UA Association for Computing Machinery*

January 2016 — Present

- Coordinate with other ACM officers to plan meetings, workshops, and events

Social Chair, *The Mallet Assembly*

April 2016 — Present

- Coordinate with other Mallet officers and members to plan events and engage with the community