Alemayehu Bogale

https://alemayehub.github.io.+ https://github.com/AlemayehuB + alemsolobog@uchicago.edu + (773)-443-5431

Education:
University of Chicago
Class of 2020
B.S in Computer Science and Physics
Honors:
QuestBridge Match Scholarship-
In 2016, the acceptance rate was 5.3%

Relevant Courses:
Computer Science:
Networks,Distributed Systems,Computer Systems
Physics:
Quantum Mechanics, Classical Mechanics, EM

Skills:
Languages:
Python, C, Javascript ,HTML,CSS ,Racket
Tools & Frameworks:
 NumPy, SciPy, Pandas, GIT, GDB, Valgrind, Proxy
Systems: Linux, OSX

Experience

FLASH Center for Compuational Science, Research Assistant | Chicago, IL| June 2017 - Present

+ Built and maintained a Python based Proton Radiography Reconstruction tool for experimental purposes
+ Edited Professors code for experimental purposes based on paper that can be found: https://arxiv.org/pdf/1603.08617v1.pdf
+ Plotted reconstructed magnetic fields using scientific computing packages in python
+ Documented use and installation of code thoroughly
+ Presented side-by-side modifications of the code to an audience of professional and postdoctoral researchers

Google Computer Science Summer Institute, Student | Chicago, IL | June 2016 - August 2016

+ Participated in an intensive programming institute, learning web-app development in HTML, CSS, JavaScript, Python and Google App Engine from Google engineers
+My group of 3 people developed Energize!!!, a full feature web app, with a Python backend, using the Jinja framework for html templating (https://energize-1470337688774.appspot.com/) and presented it to an audience of Google engineers.

Fermi National Accelerator Laboratory, Intern | Batavia, IL | June 2015 - August 2015

+ Designed web pages using Microsoft Sharepoint, WordPress, and Drupal for the Feyman Computing Center
 + Constructed various electronics including radios and batteries
+ Programmed simple robots and trained in AutoCad Design

Activities/Leadership

FEMMES, Community Outreach Director|Present

+ Led outreach to schools in the Chicago School Public System to recruit girls for our workshops and events
+ Taught a 7 week workshop that introduced middle school girls at Kenwood Academy to computer science

Refugee Relief Club, President | 2013 - 2016

+ Founder of the club
+ Tutored, taught English, and and furnished apartments for refugees.

By The Hand, Volunteer | Jan 2014 - Feb 2016

+ Tutored elementary school students in Chicago's South and West Side
+ Helped lead bible study

Whitney M. Young Varsity Football | 2012 - 2016

+ Excellent time management skills.
+ Received All-Academic State Team honors

Coursework Projects

First Year

+ Chess Board Game , Racket
+ User-Space UNIX shell, C
+ Cache Simulator + Optimization, C

Second Year

+ Simplified Netcat Client Server Model, C
+ MTCP Client Implementation , C
+ Man in the Middle attack Implementation, Python