Prashan Dharmasena
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Education:
University of California, Berkeley - Intended Major: Computer Science (2017)
Montgomery Blair HS - Science, Mathematics, and Computer Science Magnet Program (2013)
Weighted GPA: 4.25

Awards:
Distinction in BerkeleyX's CS188.x: Artificial Intelligence
Rochester Institute of Technology Computing Medal Award
1st Place - 22nd Annual University of Maryland High School Programming Contest
Advanced Placement Scholar with Distinction

Work Experience:
Center for Advanced Transportation and Technology Lab, University of Maryland, College Park – Summer 2010, Summer 2011, Summer 2013
- Built a RESTful API for uploading data to the "RITIS" database
- Java backend programming for the "RITIS" middleware application
- Wrote PostgreSQL/PostGIS queries, XML documents and schemas, and Spring config files
- Created a website for authorized users to upload XSL files to a database
- Unit testing with JUnit. Wrote a stress test for the "RITIS" server

Graphics and Visual Informatics Lab, Institute for Advanced Computer Studies, University of Maryland, College Park - Summer 2012
- Wrote an algorithm for placing buildings in cities, given a Shapefile of roads, using C++/OpenGL under Dr. Amitabh Varshney

Google Code-In 2011 - Dec 2011
- Worked on the perl5i project with the Perl Foundation

Uniformed Services University Department of Microbiology and Immunology - Dec 2010
- Analyzed data of bacterial growth kinetics in the laboratory of Dr. Ann Jerse, Ph.D.

Programming Experience:
Java, C++, C
Python and Perl
Linux Shells (bash, tcsh)
HTML, CSS, JavaScript
PostgreSQL, MySQL, PostGIS
PHP and JSP

Operating Systems:
Windows XP and 7
Mac OS X
FreeBSD and OpenBSD
Sun Virtualbox
VMWare Player
Linux (Ubuntu and Fedora)

Extra-Curricular Activities:
Silver Chips Online - Technical Director of Website (http://sco.mbhs.edu)
Montgomery Blair Sysop – Student System Administrator
MBHS Computer Team
Maryland Youth & Government Program - House Delegate
Maryland Classical Youth Orchestras - Performed at Carnegie Hall

Volunteer Activities:
International Cancer Alliance for Research and Education (ICARE)
- Designed ICARE Blair Chapter website (http://icare.mbhs.edu/)
George B. Thomas Learning Academy – Rockville HS
- Helped students in grades 3-8 with math and reading
To Teach Their Own
- Mentored disadvantaged elementary school children, helping them with homework and acting as a big brother.

Personal Projects:
BearCheck: http://bearcheck.herokuapp.com
- A service to notify UC Berkeley students when seats open up in their classes
- Written in Python using the Flask framework, deployed on Heroku