Rukmal Weerawarana

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# Education

## University of Washington; Seattle WA — 09/2013 - Present

I have completed the Calculus Series (MATH 124, 125, 126), and plan on beginning Sophomore math (MATH 307). I have also completed the Introductory Programming classes (CSE 142, 143) and the first classes in the Introductory Chemistry (CHEM 142) and Physics (PHYS 121) series.

## The British School in Colombo; Colombo, Sri Lanka — 08/2009 - 06/2013

Completing my high school career at the British School in Colombo, I pursued and received 10 IGCSE’s (International General Certificate of Secondary Education) in the sciences, computer studies, select social sciences and advanced mathematics.

I also pursued and completed the International Baccalaureate (IB) Diploma Program, which is an internationally minded, rigorous and academically challenging program of secondary education. For the diploma, I studied Chemistry, Physics and Mathematics at the higher (advanced) level, while completing English, Spanish and Geography at the standard level. Additionally, we were also required to complete a personal research project, Community Service hours and an Epistemology class, titled *The Theory of Knowledge* (<http://www.ibo.org/diploma/>).

# Work

## WSO2; 06/2014 – 09/2014

During the course of Summer 2014, I interned at WSO2 (http://wso2.com). At WSO2, I worked on the Apache Stratos team, which is their Platform as a Service solution. I worked on revamping the User Interface for the next major release, while also exploring the usage of CoreOS + Docker with Stratos.

## Mullins Molecular Retrovirology Lab; 04/2014 – 08/2014

At the Mullins Lab, I worked in the capacity of an Undergraduate Research Assistant and Scientific Programmer. I assisted lab personnel to apply computational biology techniques to better help process the large amounts of data that they acquire.

The Mullins Lab is a lab within the University of Washington’s Department of Microbiology. I used Python, Perl and Shell scripting for my work at the Mullins Lab.

Skills

* Significant previous research experience
* Knowledge of a broad spectrum of programming languages, including Java, Python, Go, JavaScript and Perl
* Experience with using a wide range of web frameworks including Node.js, Socket.io, ExpressJS and Mongoose
* Significant experience with UNIX systems

# Significant Activities and Achievements

## Participant; Hackathons — 01/2014 – Present

I have been an avid participant in many Hackathons since by first one in April 2014, and have since expanded my skills and by ability to work with restricted resources and time greatly.

### University of Washington Startup Weekend – 05/2014

### Facebook Pacific Northwest Hackathon – 04/2014

* My team built a collaborative playlist creation and management system, called CollabLists (<http://github.com/CollabLists/CollabLists>). I designed and implemented the backend functionality using the MEAN stack.

## President; British School ‘Sixth Form’ Committee — 07/2012 - 06/2013

Having started off as a member of my High School’s student government the previous year, I discovered that I had both the passion and the drive to lead my school’s student government. I honed my existing leadership skills through this, while complimenting them with multiple new skills.

## Co-Editor; High School Yearbook — 10/2011 - 07/2012

As the co-editor of the single largest publication of my school, this was an experience that tested my leadership and coordination skills. Additionally, as this was my first real leadership opportunity, it played a large role in honing my skills into what they are today.

## Recipient; Two ‘Highest Achievement’ Awards in Physics and Mathematics for the BSC Class of 2013 — 06/2013

These awards are presented to a member of the graduating class, as recognition of outstanding performance in physics and mathematics throughout their senior year.

## Recipient; Deputy Principal’s Commendation Award — 06/2013

This award is presented to students who have displayed outstanding dedication and have significantly contributed to the school community and/or participated in extra and co-curricular activities throughout the year.

# Major Projects

## GPA Manager - JavaScript - <http://github.com/rukmal/GPAManager>

A utility for students to manage their class GPAs, minus the stress. Built using Node.js, ExpressJS, Mongoose and other web frameworks. This project is currently in development.

## NodeBlog - JavaScript - <http://github.com/rukmal/NodeBlog>

A full web stack blogging platform built on Node.js. This project uses Mongoose, Socket.io, Marked and other web frameworks. This project is currently in development.

## UW Open Data - Python - <http://github.com/rukmal/UW-OpenData>

Python APIs for all of the University of Washington’s online services. This project is currently being developed by myself and [Karan Goel](http://goel.im).

## Leap Pong - JavaScript - <http://github.com/grant/LeapPong>

Play pong using the Leap Motion with a friend! Multiplayer pong game developed by myself and [Grant Timmerman](http://granttimmerman.com) using Node.js and other web frameworks.

## Spotify Instant - JavaScript – <http://rukmal.github.io/SpotifyInstant>

Aesthetically beautiful instant search for the Spotify music library. This project uses the Spotify Metadata API and the Spotify Play API to deliver fully functional instant catalog search.

Note: Most of my work is Open Source. See my GitHub ([*http://github.com/rukmal*](http://github.com/rukmal)) for a more comprehensive list.

Previous Research

* International Baccalaureate Extended Essay (Physics) - <http://goo.gl/dvvuki>
* An Analysis of Coastal Management in Sri Lanka (Geography) - <http://goo.gl/rKP12A>
* Analyzing the Polynomial *Shadow Function* (Mathematics) - <http://goo.gl/CS5BFZ>
* An analysis of the role of disagreement in the pursuit of knowledge in the natural and human science (Epistemology) - <http://goo.gl/CEku0N>