

## Technical Skills

*Languages:* c/c++, python, JavaScript, php, MYSQL, HTML5, CSS3.

*Frameworks/Libraries:* jQuery, Bootstrap, AngularJS, Underscore.js.

*Tools/Other:* Git, Burp Suite, Bower, Grunt, Gulp, Yeoman, Kali Linux, Ajax.

## Areas of Interest

Data structures and Algorithms, Web Application Development, Penetration Testing, Computer Networks.

## Project Experience

### Website performance Optimization - <https://github.com/manojvarma/wpo>

January - 2016

- Optimized critical rendering path of existing website to achieve PageSpeed Insights score above 90.
- Eliminated inefficiencies in the websites scroll animation. Site now scrolls at 60 frames per second.
- Minimised use of render blocking and parser blocking resources through asynchronous JavaScript.

### Mash-up (news Map) - <https://github.com/manojvarma/Mash-up>

November - 2015

- Built a Single-page, responsive app with MVC framework using Google Maps API Over LAMP stack.
- Map will load with Markers over the cities and allows user to search area by type-ahead suggestions .
- Users can view recent news by hovering over each location ( by AJAX request to Google News API).

### CS50-Finance- <https://github.com/manojvarma/Harvard-cs50-finance>

August - 2015

- Built a fully responsive web application using bootstrap and jQuery Over LAMP stack.
- Website allows users to check real time stock prices from yahoo finance stocks API via stock symbol.
- Users can buy and sell stocks using virtual money and can track their transaction history.

### Context based filtering to prevent XSS attack in web applications

May -July 2015

- Developed context based filters to sanitize malicious user input and prevent XSS attack in web apps.
- Studied and analyzed different types of cross-site scripting attack vectors and their attack methodology.
- These filters can be ported to any another back-end language because of their context based nature.

## Education

### Udacity - Front-End Web Developer Nanodegree

2015-Current

### Indian Institute of Information technology, Gwalior, I.T ( B.tech+M.tech)

2012-Current

### Harvard University online MooC Courses

2013 - 2015

- Understanding Computers and Internet
- Introduction to computer programming
- Building dynamic websites
- Software engineering for Web applications

## Honors and Activities

- Problem setter for Akraman Ethical hacking contest at Infotsav-2013.
- Took a 2 days workshop on web security in our college under AASF students Forum.
- Secured 8 medals in inter and intra college level volleyball championship.
- Hobbies include reading web scalability and security related blogs.
- Took a 2 days workshop on computer networks in our college under AASF students Forum.