

Harmanpreet Singh

Executive Summary

I enjoy both design and development. Being a computer science engineer with skill in both these domains, I keep the balance between form and function and pay special attention to technical aspects as well as UI/UX and typography of every project.

Projects

2016 **Business application for Indian mid sized construction companies.**

Web based business application developed to manage salaries of employees working at different construction sites. Expenditure reports can be generated site wise, month wise and year wise. There is also a feature to keep and view historical records of employees' per day rates. Project is powered by NodeJS at back-end and Google's AngularJS front-end framework at front-end. Angular Material and MaterialiseCSS (Google's material design specifications based CSS framework) is used for UI/UX. [Code.](#)

2015 **WordPress theme development.**

An easily customizable flat design theme for creating stunning and responsive WordPress websites. Equipped with inbuilt options to create ravishing and striking portfolio, it is suitable for people ranging from individuals to small and medium enterprises. It is backed by HTML5, CSS3, AJAX, JQuery and PHP. [Code.](#)

2013 **Google Summer of Code-2013 (GSoC): Online Geometry Viewer (OGV).**

A program organized and funded by Google to promote open source software development, I was selected by BRL-CAD, an open source CAD software community. My project was to develop Online Geometry Viewer (OGV), a web application for viewing BRL-CAD's native format (.g format) on web browsers. three.js, a WebGL based JavaScript library was used at back-end for 3D geometry visualization. [Code.](#)

2012 **Web based CAD model generator.**

As part of six months industrial training, I developed a web application in C++ that helps to create customized model of water tank with minimum efforts, without any need of having expertise knowledge of CAD systems. User just need to fill the form with water tank parameters and back-end system automatically generates the corresponding model. **Project is written in C++ and file parsing is done with shell scripting. CGI is used as an interface between C++ executables and web browser.** [Code.](#)

Work

Aug'12 - May'16 **Web developer, Director** CSIOM Solutions Private Limited.

As developer, I worked with the team at project back-end on various client projects, helped in UI design, responsiveness and CSS. Being trusted by co-founders, I as Director played vital role in idea generation, maintaining morale among team members and headed product development team. My major responsibilities were managing financial and banking operations, business planning and conflicts resolution.

Achievements

- 2014 **Google Summer of Code**, Mentor in BRL-CAD.
- 2014 **Google Code-In**, Mentor in BRL-CAD.
- 2013 **Google Summer of Code**, Student in BRL-CAD.
- 2013 **Google Doc Camp**, hosted by Google at their HQ in California, USA. I was invited to attend as one of BRL-CAD's team member to contribute in writing a guide for new developers about how to start with BRL-CAD.
- 2013 **Google Code-In** Mentor in BRL-CAD.
- 2012 **Google Code-In** Mentor in BRL-CAD.

Education

- 2009 – 2013 **B.Tech**, *Computer Science and Engineering*, Guru Nanak Dev Engineering College, Ludhiana, Punjab.

Skillset

Advanced level: HTML, CSS, JavaScript, C++, CGI, AngularJS, Angular Material, NodeJS, ThreeJS, shell scripting, MySQL, WordPress, Bootstrap, MaterializeCSS, UI/UX.

Intermediate level: Linux server administration.

Basic level: \LaTeX .

Tools: vim editor, git, make utility, Doxygen, Inkscape, GIMP.