

BHARGAVA B HEGDE

Ph: (+91) 7829876713

Email: bhargavbhegde7@gmail.com

Github profile: <https://github.com/bhargavbhegde7>

2+ year of experience of designing, building and maintaining web and desktop applications end-to-end.

B.E. in Information Science and Engineering from R.V. College of Engineering (2013-14), Bangalore.

| Key Skills | Technology |
|-------------------------------------|-----------------------------------|
| Web design | HTML, CSS, JS |
| Web applications | Node JS, J2EE, spring, Hibernate |
| Desktop application development | Java, python |
| Mobile application development | Android, Phonegap, Cordova, ionic |
| Network programming | native sockets, Web sockets |
| Object Oriented Design and modeling | Java |
| Operating system development | Assembly, C |
| Internet of things | Raspberry pi |
| Robotics | Raspberry pi |
| Image Processing | OpenCV, python |

Professional Experience

- Worked with **Indegene Lifesystems** for over a year as a Java web developer.
Worked on a web platform for job assignment, workflow management and profile handling purposes. The application primarily concentrates on projects, Purchase Orders, Vendors, and Customers. Also, helps to manage profiles of users, administrators on a role based authorization schema.
Main technology used was **Spring MVC** with **Oracle** with **hibernate** for the backend.
- Have been working with **Infinera India** since March -2016
Develop and enhancement of a java based desktop application (Digital Network Administrator / DNA) that handles the nodes in an optical network. This is mainly concerned with SDN (Software Defined Networking). The tool provides an interface to handle all the functionalities and the provisioning of each network element (node) on a higher level.
- **Web Development:**
 - **Hostel Mess Management System:** Expenses and managing the profiles in the college hostel. PHP, MySQL with apache http server. (LAMP stack)
 - **Social Networking Website:** An experimental project to learn the web development. Consisted of features like profile management, friend/unfriend, sending messages, uploading pictures, etc. (LAMP stack)
 - **JavaScript Web Applications:** Have built small client side web applications with JavaScript for learning purposes. Example: [hop-n-duck](#) and [memory-game](#). The latter got accepted for the Mozilla OS Marketplace.
 - Proficient with Java **Spring framework**.
 - Have a working knowledge of front end frameworks like **JQuery**, **AngularJS**, etc.
- **Image Processing:** REST api for tesseract (Optical Character Recognition library by Google) – ([ImageToText](#))

- **Computer networks:**

Have built applications with network programming both in C and Java.

- **PC Controller:** Platform independent desktop application that helps the user to control the Mouse Pointer in the PC over the Wi-Fi with an android application. Events like click, drag, etc. have been implemented in the server running on the PC using a Java AWT library called Robot. Uses Multi-threading to achieve concurrency. The events are passed from the phone to the PC wirelessly using TCP native sockets in android. ([pc-controller](#))
- **Socket file transfer:** Built a client-server application with python scripting that helps to transfer files between two computers within the network ([pynet](#))

- **Operating Systems:**

Worked on many low-level projects like

- **Page Replacement Algorithm:** A simulation of various page replacement algorithms using C, as a minor project in third year of engineering.
- **Operating system from the scratch:** Working on a project that aims to build a lightweight 32-bit operating system from the hardware level. ([osproject](#))

- **Android Application Development:**

Have worked on development of various small scale mobile applications like

- **GeoReminder:** A GPS based app to remind the user about a task based on previously set locations. When the user is found at the locations saved in the application, a popup reminder is initiated.
- **IMDB App:** A native app to quickly search for a movie or a TV show on IMDB website. ([IMDBMovie](#))
- **SMBC App:** A native app to browse through the SMBC comics. ([SMBcApp](#))
- **Sleepism:** A simple native app to help the user get more continuous sleep. ([Sleepism](#))

- **Hybrid Applications development:**

Have built applications using Apache Cordova.

- **3D Simulation:** An application to imitate the phone's rotation on a browser. It uses a java based server for receiving the accelerometer data of the phone, and a JavaScript library to perform the 3D rendering. The communication between the app and the server happens with Web Sockets.
- Have worked on Hybrid frameworks like **ionic, ng-cordova, etc.**

- **Internet of Things**

Worked on hardware-related projects with **raspberry pi** using **python, Node js** and **opencv**

- Built a security system with the raspberry pi camera module as the motion detector.
- Built a voice controlled system that can perform various actions on an array of LEDs (on, off, color change, blink, etc). This happens through a web based interface, so it can be controlled from anywhere with internet. ([WebSockServer](#))
- Built a facebook chat bot to automate any IOT device. ([FbChatBot](#))

- **Robotics**

Built a robot vehicle with live video streaming using raspberry pi and stepper motors. ([robotproject](#))

- **Most Innovative Project Award-RVCE:**

was awarded "most innovative project" from the department of Information Science, RVCE for final year project 'Cerebro'. ([IJITR-white-Paper](#))