basav1989@gmail.com

**SUMMARY**

Software Engineer with 6 years of comprehensive experience including:

Domain's worked on so far:

* Image/Video Processing, GPS/Location Based Services, Performance Modelling,

Operating Systems.

Mathematical Skills:

* Descriptive and exploratory statistics, Stochastic processes

Languages:

* C++(lethal), Javascript(very good), C(good) , Python(Intermediate), Java(Intermediate) , R

Frameworks and Tools:

* Nodejs, express, Matlab, Sql, RStudio, Linux Kernel, Intel Ipp, ffmpeg

Development Methodologies:

* Agile, Scrum, Test Driven Development, Pair programming

Open Source Contributions/repositories**:**

* <https://github.com/basav1989>
* <https://repl.it/@BasavarajNagar>
* <https://www.hackerrank.com/basav1989>

**PROFESSIONAL EXPERIENCE**

**LG Electronics Bangalore, KA**

**Senior Software Engineer August 2015 – Present**

webOS platform

Performance Modelling for webOS

\* Implement R plugins (via C++ bindings) into v8 engine for easy integration into nodejs.

\* Factor Analysis Model

\* Implement PCA for volatile characteristics analysis.

\* Auto-Correlation Model

\* Implement AR(1) models for timeseries analysis.

\* Develop Visualizations in polymer and highcharts(frontend)

Location Based Service for wearables

\* Interface with qualcomm abstraction layer for Continuous location updates.

\* Integrate GoogleMaps REST API's for Geocoding and reverseGeoCoding

\* Tests for accuracy (ANOVA) for Visualization of covariance between device coordinates

and reference coordinates

**GE Healthcare Bangalore, KA**

**Design Engineer June 2014 – July 2015**

Digital Radiography Imaging

Implement Diagnostic Imaging Subsystem for Flat Panel Detectors

\* Move Bad Pixel Calibration, Image Quality acessment Algorithms to C++ 11.

\* Implement a flexible image pre-processing pipeline:

\* Allow dynamic algorithm selection such as presence/abscence of dark frame

subtraction stage for certain platforms.

\* Introduce google test for these pipelines and integrate them to internal

monitoring web services.

**Bosch India Bangalore, KA**

**Software Engineer July 2011 – May 2014**

CoreOs

SensorHub implementation for GENIVI platforms

\* Design and Code a virtual adc kernel driver (Character subsystem).

\* Implement OS abstraction layer for these drivers.

\* Support newer platforms via device tree additions.

System Application Manager

\* Implement State Machines for newer platforms.

\* Map system power states to application states.

**EDUCATION**

**R.V College Of Engineering Bangalore, KA**

**Bachelors in Engineering (Instrumentation) May 2011**

* GPA: 8.56