

## Synergies in eCommerce , eLearning, IoT.

I have been doing startups for last 5 years and have created MVPs for ecommerce, elearning, enterprise apps, utility apps. It has been a challenging journey and has required me to know breadth, a bit more than depth. I work on Nodejs, Android/iOS native, Angular/Backbone, Data science algorithms and embedded stacks/C/C++.

### Startup Experience Overview

| Period               | Internal Projects   | Highlights   |
|----------------------|---|--|
| Since March 2015     | Archiejs.org (work in progress)                                 | An open-source nodejs framework suitable for building, scalable APIs using micro-services architecture.  |
|                      | Demo available  | Building video application on iOS for creating video abstracts, video blogs and other knowledge transfer usecases.   |
|                      | <a href="http://trialroom.me">trialroom.me</a> (demo available) | Working on image processing technologies and processes for automation of catalog image generation for ecommerce stores.  |
| 2012-2015            | Self owned IT services company with a team of 5 members in past | I was involved in getting business and delivering software products. We have build various apps for our clients. Building Mobile and Webs Products on Android, iOS and MEAN stack. (Website: <a href="http://flipflopapp.com/">http://flipflopapp.com/</a> , Github: <a href="https://github.com/mHFFlw">goo.gl/mHFFlw</a> ) |
| 2012-2015            | Experiments in content, news and e-learning                     | Applied for a patent on search technology ( <a href="https://github.com/mHFFlw">goo.gl/1iOkTd</a> )  |
|                      | SilentNinja.co – an intelligent call blocker                    | Live on app store, largely overlaps google priority feature in versions 5.0 now. (Link: <a href="https://github.com/mHFFlw">goo.gl/DJEJy1</a> )  |
| Mid 2011 – July 2010 | EDEDAA – Art exhibitions along staircases in corporates         | I was the Curator & Planner of a startup in arts industry ( <a href="http://ededaa.blogspot.in">http://ededaa.blogspot.in</a> )  |

### Employment Experience Overview

| Period               | Org.                         | Responsibilities  | Highlights  |
|----------------------|------------------------------|---|---|
| July 2010 – Feb 2009 | Qualcomm                     | Customer issues related to audio multimedia and stability                                       | I was a single Hyderabad PoC for any multimedia audio issues on Qualcomm chipsets Arm 9 + Arm 11 and Arm 9 + Scorpion chipsets, coordinating across multiple teams and spread across regions. |
| Jan 2009 – July 2006 | Conexant/NXP Semi-conductors | Open source tools and technologies (mainly linux kernel) and BSP development for set-top-boxes. | Suggested a patch to Linux kernel community, titled "O_DIRECT patch for processors with VIPT cache for mainline kernel" (Link: <a href="https://github.com/mHFFlw">goo.gl/2QEwGi</a> )        |

### Technical competency

| Year    | Tech and Role   | Modules, Projects and Technologies   |
|---------|---|--|
| 2011-15 | Web & Mobile applications<br><br><b>Role:</b><br>Startup Founder;<br>Freelancer | A few successfully delivered projects:<br>1. Convflow.com - for idea generation,<br>2. Silentninja.co - for reducing the noise on your phone<br>3. Happco.com - a happiness app<br><br>Failed experiments (internal):<br>1. newsninja.co / ecosystm.co – experiments with news and discussions<br>2. rewq.co – experiments with elearning and knowledge management<br><br><u>Languages:</u> nodejs, android (java), swift (ios), angular (backbone, sencha touch), C/openCV etc. |
| 2009-10 | Smart phone<br><br><b>Role:</b><br>Android audio multimedia Customer Engineer   | <u>Products:</u> LG GT540 (Optimus), Samsung Galaxy ...many more of 7x series<br><u>Modules:</u> Android music application, Android framework classes, Opencore PVMF, Userspace HAL, Audio drivers, Hardware drivers for audio devices (like headset, BT headset, etc), proprietary audio routing mechanisms, etc<br><u>Languages:</u> C, C++, Java<br><u>Other responsibilities:</u> Customer training, Documentation, Software architecture support for customers              |
| 2006-09 | Set top boxes<br><br><b>Role:</b><br>Engineer in Open source and BSP team       | <u>Products:</u> Nevis, Pecos, Trinity (and variants)<br><u>Modules:</u> Linux kernel, Uboot, Proprietary kernel abstraction layer (in kernel space and user space), Busybox, Uclibc library, GDB, etc<br><u>BSP areas:</u> Arm 11 application processor bring-up, porting Uboot, Memory management related issues, Arm related issues (caching), etc<br><u>Languages:</u> C, Arm assembly, Lauterbach scripting, Makefiles  |

**Educational Data**

| <i>Degree</i>                     | <i>Year</i> | <i>University</i>                        | <i>Highlights</i>   |
|-----------------------------------|-------------|--|---|
| Master of Computer Applications   | 2006        | Guru Gobind Singh Indrap. Univ. (GGSIPU) | Algebraic study of discrete multidimensional signal processing, unpublished work, MCA 3 <sup>rd</sup> sem, 2004 (Link: <a href="http://goo.gl/97LYOd">goo.gl/97LYOd</a> ) |
| Bachelor of Computer Applications | 2003        | Delhi University                         | Tried to build a very primitive OS in assembly language   |

**Personal Data**

|                            |   |
|----------------------------|---|
| Date of Birth, Nationality | 27-11-81, INDIAN  |
| Languages                  | English, Hindi  |
| Interests                  | Playing flute, Cycling, Networking, Social work, Writing, Learning about cultures       |
| Website                    | <a href="http://flipflopapp.com/">http://flipflopapp.com/</a>                           |
| Github                     | <a href="http://www.github.com/flipflopapp">http://www.github.com/flipflopapp</a>       |
| Engineering Blog           | <a href="https://medium.com/engineering-notes">https://medium.com/engineering-notes</a> |
| Hobby Blog                 | <a href="https://medium.com/@navalsaini/">https://medium.com/@navalsaini/</a>           |