

Interests: **eLearning, IOT, eCommerce, and more**

Carrier Brief

I fall in love everyday with tech and life – somedays one more than the other. I have been doing startups for last 5 years and it has been a tremendous enriching experience. It has been a challenging journey and has required me to know breadth, a bit more than depth.

Previous to startups, I have worked on some core embedded technologies – such as the **Linux kernel** and **the Android framework**. I worked in an R&D role in Conexant and as a customer engineer in Qualcomm. Currently I am working on **NodeJS, Android Apps, iOS apps, No-SQL** databases and **Backbone/AngularJS**. I also do parts of Product Management for my freelance clients and for my own projects. I have good knowledge of Data Science for an enthusiast.

Here is a summary of my startup experience.

.FlipFlopApp is a services company delivering web and mobile applications. We were a small team of five earlier. Currently, I freelance under the company name and don't have employees. Some of the products we have made in-house are. Our play store apps have had a cumulative download of 50000 users approximately.

.I have been experimenting with 'Collaborative Learning Platforms' for a while and built a few for others (such as convflow, ezzvideo, etc). I am currently working on a collaborative learning platform again for elearners.

.SilentNinja.co is the first product we launched on Android Playstore.

.EDEDAA was about making staircases interesting. I did art exhibitions at along staircases in companies, so people could walk up and enjoy art and photography. I motivated employees to be happier in their lives.

.Besides this, startups have given me a tremendous opportunity for personal and professional development - understanding myself, others and about products.

Employment & Experience Overview

<i>Period</i>	<i>Organization</i>	<i>Desig.</i>	<i>Responsibilities</i>	<i>Highlights</i>
Since April 2015 (parallel projects)	Flixstock.com	Consultant	Technology development	I am working on their image processing technologies and processes. Flixstock automates catalog image generation for ecommerce stores.
	EzzVideo	Freelancer	IOS application development	I am building an enterprise knowledge exchange video application on iOS.
Since May 2011- March 2015	A Collaborative Learning Platform	Founder of product startup	Idea conceptualization to product development.	Applied for a patent on search technology (goo.gl/1iOkTd)
	FlipFlop App	Founder of services startup	Getting business and delivering software products. We have build various apps such as Convflow, HapptoGo, etc for our clients.	Building Mobile and Webs Products on Android, iOS and MEAN stack. (Website: http://flipflopapp.com/ , Github: goo.gl/mHFFlw)
	SilentNinja.co – an intelligent call blocker	Founder of product startup	Idea conceptualization to product development and launching in the market	Live on app store, largely overlaps google priority feature in versions 5.0 . (Link: goo.gl/DJEJy1)

<i>Period</i>	<i>Organization</i>	<i>Desig.</i>	<i>Responsibilities</i>	<i>Highlights</i>
May 2011 – July 2010 (1+ year)	EDEDAA – Art exhibitions along staircases in corporates	Curator & Planner	Founder of a startup in arts industry (ededaa.blogsopt.in)	Covered several times on local news, we ran operations for 1+ years.
July 2010 - Feb 2009	Qualcomm Pvt. Limited	Customer Engineer	Customer issues related to audio multimedia and stability	Android audio multimedia stack
Jan 2009 - July 2006	Conexant / NXP Semi-conductors	Software engineer	Part of open source team that worked on BSP and generic open source softwares (including linux kernel)	Open source tools and technologies (mainly linux kernel) and BSP development for set-top-boxes.

Technical competency

<i>Year</i>	<i>Tech/Role/etc</i>	<i>Responsibilities</i>
2011 to 2015	<p>Web & Mobile applications</p> <p>Role: Startup Founder; Freelancer</p> <p>Products:</p> <ol style="list-style-type: none"> 1. ConvFlow.com (web) 2. SilentNinja.co (Google Play) 3. HappCo.com (AppStore) 4. EzzVideo (releasing soon on playstore) <p>* In addition, there were many experiments that did not take off.</p>	<p>I am responsible for tasks such as project management, product management, mentoring & hiring. I managed a small team of developers.</p> <p>I have architected software for minimum viable products. I am a big fan of micro-services architecture and plugin based architecture on web.</p> <p>I develop using NodeJS on the backend. I use various JS frameworks on the frontend. I have open sourced code in NodeJS, Sencha Touch and Backbone. I have worked on NoSQL databases (such as MongoDB) in my projects.</p> <p>On Android, I am well aware of the framework, in addition to application APIs. Due to my knowledge of the framework, I can port/write softwares using android NDK (for example, OpenCV based apps, or some Midi engines, etc). I have recently started working on iOS apps also and built a video processing app known as EzzVideo (to be released).</p> <p>I like to stay updated with any new products and read about UI/UX. In future, I plan to increase my knowledge in machine learning and product management practices.</p>
2009 -10	<p>Smart phone</p> <p>Role: Android audio multimedia Customer Engineer</p> <p>Products:</p> <p>LG GT540 (Optimus) Samsung Galaxy ...many more</p>	<p>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.</p> <p><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</p> <p><u>Languages:</u> C, C++, Java</p> <p><u>Other responsibilities:</u> Customer training, Documentation, Software architecture support for customers</p>
2006 -09	<p>Set top boxes</p> <p>Role:</p>	<p>I was involved in porting/maintaining several generic open-source packages (primarily linux kernel) and on BSP related issues.</p>

Engineer in Open source and BSP team	Products: Nevis, Pecos, Trinity (and variants)	Modules: Linux kernel, Uboot, Proprietary kernal abstraction layer (in kernel space and user space), Busybox, Uclibc library, GDB, etc BSP areas: Arm 11 application processor bringup, porting Uboot, Memory management related issues, Arm related issues (caching), etc Languages: C, Arm assembly Scripting: Shell scripting, Lauterbach scripting, Makefiles Other responsibilities: Documenting user guides for tools like GBD, Lauterbach, etc
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Interesting things about me

- .Applied for a search engine patent in 2014 (Link: goo.gl/1iOkTd)
- .Suggested a patch to Linux kernel community, titled "O_DIRECT patch for processors with VIPT cache for mainline kernel" (Link: goo.gl/2QEwGi)
- .Algebraic study of discrete multidimensional signal processing, unpublished work, MCA 3rd sem, 2004 (Link: goo.gl/97LYOd)
- .Coded many C and C++ projects since junior school years.
- .I like to volunteer and play flute music.

Educational Data

Degree	Discipline	Year	University	Performance
Master of Computer Applications (Software Engineering)	Computer Science	2006	Guru Gobind Singh Indraprastha University (GGSIPU)	Ist Division
Bachelor of Computer Applications	Computer Science	2003	Delhi University	Ist Division

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	http://flipflopapp.com/
Github	http://www.github.com/flipflopapp
Engineering Blog	https://medium.com/engineering-notes
Hobby Blog	https://medium.com/@navalsaini/