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Synergies in **eCommerce , eLearning, IoT.**

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 am building a new open-source framework for building mobile first micro-services architecture applications (archiejs)

    - .I am building an building a video application for some usecases in eLearning.

    - .We have created MVPs for ecommerce, elearning, enterprise apps, utility apps.

- .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.

Startup Experience Overview

Period	Org / Website	Comments
FlipFlop App IT services	Self owned IT services company	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: http://flipflopapp.com/, Github: goo.gl/mHFFlw)
Since March 2015 (our projects)	*Demo available*	Building an enterprise knowledge exchange video application on iOS.
	trialroom.me *(Demo available)*	Working on image processing technologies and processes for automation of catalog image generation for ecommerce stores.
Since May 2011- March 2015 (our projects)	Experiments in content, news and e-learning	Applied for a patent on search technology (goo.gl/1iOkTd)
	SilentNinja.co – an intelligent call blocker	Idea conceptualization to product development and launching in the market. Live on app store, largely overlaps google priority feature in versions 5.0 now. (Link: goo.gl/DJEJy1)
May 2011 – July 2010 (1+ year)	EDEDAA – Art exhibitions along staircases in corporates	I was the Curator & Planner of a startup in arts industry (ededaa.blogsopt.in)

Employment Experience Overview

Period	Organization	Desig.	Responsibilities	Highlights
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

Year	Tech/Role/etc	Responsibilities
2011 to 2015	Web & Mobile applications **Role:** Startup Founder; Freelancer	I am responsible for tasks such as project management, product management, mentoring & hiring. I have managed a small team of developers. I have architected software for minimum viable products. I am a big fan of micro-services architecture and plugin based architecture on web. A few successfully delivered projects: 1. Convflow - for idea generation, 2. Silentninja - for reducing the noise on your phone 3. Happco - a happiness app 4. ATM – experiments with ambient sounds and phone Failed experiments (internal): 1. newsninja.co / ecosystm.co – experiments with news and discussions 2. rewq.co – experiments with elearning and knowledge management Pipeline: 1. archiejs – a new framework for writing nodejs applications specially suited for micro-services architecture. 2. trialroom.me – an MVP for a desktop software for styling yourself 3. A video app in elearning space. Languages: nodejs, android (java), swift (ios), angular (backbone, sencha touch), C/openCV etc.
2009 -10	Smart phone **Role:** Android audio multimedia Customer Engineer **Products:** LG GT540 (Optimus) Samsung Galaxy …many more	I was a single Hyderbad PoC for any multimedia audio issues on Qualcomm chipsets Arm 9 + Arm 11 and Arm 9 + Scorpian chipsets, coordinating across multiple teams and spread across regions. Modules: 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 Languages: C, C++, Java Other responsibilities: Customer training, Documentation,

2006 -09	Set top boxes **Role:** Engineer in Open source and BSP team **Products:** Nevis, Pecos, Trinity (and varients)	I was involved in porting/maintaining several generic open-source packages (primarily linux kernel) and on BSP related issues. <u>Modules</u>: Linux kernel, Uboot, Proprietary kernal abstraction layer (in kernel space and user space), Busybox, Uclibc library, GDB, etc <u>BSP areas</u>: Arm 11 application processor bringup, porting Uboot, Memory management related issues, Arm related issues (caching), etc <u>Languages</u>: C, Arm assembly <u>Scripting</u>: Shell scripting, Lauterbach scripting, Makefiles <u>Other responsibilities</u>: Documenting user guides for tools like GBD, Lauterbach, etc

(row above continues — "Software architecture support for customers")

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/