

## Carrier Brief

I fall in love everyday with tech and life – somedays one more than the other. I have been doing startups for last 4-5 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**, **No-SQL** databases and **Backbone**. My interests also lie in Product Management and Data Science.

I have attempted three serious startups in last 4 years, besides freelancing. Here is a summary.

FlipFlopApp is a services company delivering web and mobile applications. I hired a small team earlier. Currently, I freelance under the company name and don't have employees. Some of the products we have made in-house are.

REWQ.co – Collaborative Learning Platform is my latest web-app in the market. I plan to make this a weekend project.

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>Domain</i>
Since May 2011- Dec 2014 (3+ years)	REWQ.co – Collaborative Learning Platform	Founder of product startup	Idea conceptualization to product development	1. Product planning & development 2. Applied for a patent on search technology
	FlipFlop App	Founder of services startup	Getting business and delivering software products	1. Developing ideas to Minimum Viable Products 2. Building Mobile and Webs Products
	SilentNinja.co – an intelligent call blocker	Founder of product startup	Idea conceptualization to product development and launching in the market	1. Product development 2. Promoting the product after launch
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)	1. Making things happen – concept development, business development, marketing, operations 2. Covered several times on local news
July 2010 - Feb 2009	Qualcomm Pvt. Limited	Customer Engineer	Customer issues related to audio multimedia and stability	1. Android general 2. 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)	1. Open source tools and technologies (mainly linux kernel). 2. BSP development for set-top-boxes.

## Technical competency

Year	Tech/Role/etc	Responsibilities
2011 to 2015	<p>Web &amp; Mobile applications</p> <p><b>Role:</b> Startup Founder; Freelancer</p> <p><b>Products:</b></p> <ol style="list-style-type: none"> <li>1. REWQ.co (web)</li> <li>2. ConvFlow.com (web)</li> <li>3. SilentNinja.co (Google Play),</li> <li>4. HappCo.com (AppStore)</li> </ol>	<p>I am responsible for tasks such as project management, product management, mentoring &amp; 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).</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><b>Role:</b> Android audio multimedia Customer Engineer</p> <p><b>Products:</b></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><b>Role:</b> Engineer in Open source and BSP team</p> <p><b>Products:</b></p> <p>Nevis, Pecos, Trinity (and variants)</p>	<p>I was involved in porting/maintaining several generic open-source packages (primarily linux kernel) and on BSP related issues.</p> <p><u>Modules:</u> Linux kernel, Uboot, Proprietary kernel abstraction layer (in kernel space and user space), Busybox, Uclibc library, GDB, etc</p> <p><u>BSP areas:</u> Arm 11 application processor bringup, porting Uboot, Memory management related issues, Arm related issues (caching), etc</p> <p><u>Languages:</u> C, Arm assembly</p> <p><u>Scripting:</u> Shell scripting, Lauterbach scripting, Makefiles</p> <p><u>Other responsibilities:</u> Documenting user guides for tools like GBD, Lauterbach, etc</p>

## Interesting things about me

Applied for a search engine patent in 2014 (PCT Application No. PCT/IN2014/000432)

Suggested a patch to Linux kernel community, titled "O\_DIRECT patch for processors with VIPT cache for mainline kernel" (*find on google*)

Algebraic study of discrete multidimensional signal processing, unpublished work, MCA 3<sup>rd</sup> sem, 2004

Coded many C and C++ projects since junior school years.

I like to volunteer.

## Educational Data

<i>Degree</i>	<i>Discipline</i>	<i>Year</i>	<i>University</i>	<i>Performance</i>
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
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>