# Naval Saini

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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 |
|---|---|---|
| FlipFlop App IT services | 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: http://flipflopapp.com/, Github: goo.gl/mHFFlw) |
| Since March 2015 (our projects) | *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 KT usecases. |
| | *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 | Org. | Responsibilities | Highlights |
|---|---|---|---|
| July 2010 - Feb 2009 | Qualcomm | Customer issues related to audio multimedia and stability | 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. |
| 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: goo.gl/2QEwGi) |

**Technical competency**

| Year | Tech and Role | Modules, Projects and Technologies |
|---|---|---|
| 2011 to 2015 | Web & Mobile applications<br><br>**Role:**<br>Startup Founder; 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>Languages: nodejs, android (java), swift (ios), angular (backbone, sencha touch), C/openCV etc. |
| 2009 -10 | Smart phone<br><br>**Role:**<br>Android audio multimedia Customer Engineer | Products: LG GT540 (Optimus), Samsung Galaxy ...many more of 7x series<br>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<br>Languages: C, C++, Java<br>Other responsibilities: Customer training, Documentation, Software architecture support for customers |

| 2006 -09 | Set top boxes **Role:** Engineer in Open source and BSP team | Products: Nevis, Pecos, Trinity (and variants) Modules: Linux kernel, Uboot, Proprietary kernel abstraction layer (in kernel space and user space), Busybox, Uclibc library, GDB, etc BSP areas: Arm 11 application processor bring-up, porting Uboot, Memory management related issues, Arm related issues (caching), etc Languages: C, Arm assembly, Lauterbach scripting, Makefiles |
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**Educational Data**

| Degree | Year | University | Highlights |
| --- | --- | --- | --- |
| Master of Computer Applications (Software Engineering) | 2006 | Guru Gobind Singh Indraprastha University (GGSIPU) | Algebraic study of discrete multidimensional signal processing, unpublished work, MCA 3$^{rd}$ sem, 2004 (Link: goo.gl/97LYOd) |
| Bachelor of Computer Applications | 2003 | Delhi University | Tried to build a very primitive OS in assembly language |

**Personal Data**

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| 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/ |