

I have 10 years of experience - 5 years in corporate and 5 years in startups. I mostly work on Nodejs and backends. I also use Android/iOS native, React, some data science algorithms and embedded stacks/C/C++ to build MVPs.

### Employment Experience Overview

Period	Org.	Responsibilities & Highlights
July 2016 to Nov 2015	Consultant, <a href="#">JioMoney</a> Bangalore, Reliance Jio	<p>A high concurrency bus data aggregator, for finding and booking bus tickets (2 months)</p> <p>We worked in a team of 3 backend developers and had a very quick turnaround time. We are able to aggregate buses from many different aggregators in realtime and provide more buses on our platform than our competition. (tech: nodejs, es6/7, postgres)</p> <p>Server development for mobile wallet (3 months)</p> <p>We worked in a team of 5 developers. I defined an architecture for the server and coded some modules in it, including the ISO 8583 client module. (tech: java play, oracle db, actor system)</p> <p>To develop automation testsuite for android and iOS wallet application (2 months)</p> <p>We worked in a team of 3 developers and wrote about 250-300 integration testcases for Android and iOS apps from scratch. (tech: calabash, gerkin, page object model)</p>
15 - 10	Flipflopapp	I worked on several startup ideas developing MVPs – as a cofounder or as a freelancer. The projects are listed at <a href="http://goo.gl/3mCIQn">http://goo.gl/3mCIQn</a> .
10 - 09	Qualcomm	<p>Customer issues related to audio multimedia and stability</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>
09 - 06	Conexant/NXP Semi-conductors	<p>Open source tools and technologies (mainly linux kernel) and BSP development for set-top-boxes.</p> <p>Suggested a patch to Linux kernel community, titled "O_DIRECT patch for processors with VIPT cache for mainline kernel" (Link: <a href="http://goo.gl/2QEwGi">goo.gl/2QEwGi</a>)</p>

### Experiments and patents

- Halfchess ([www.halfchess.com](http://www.halfchess.com)) – a game for improving your chess skills while spending lesser time
- Archiejs (<https://github.com/archiejs>) – an open-source nodejs dependency injection framework
- Applied for a US patent on search technology while developing NewsNinja (<http://www.google.ch/patents/WO2015083180A1>)
- Long history of contributing to open-source (<http://github.com/flipflopapp>)

**Technical competency**

Year	Tech and Role	Modules, Projects and Technologies
2011-16	Web & Mobile applications  <b>Role:</b> Startup Founder; Consulting	<u>Live services &amp; products:</u> Built various mobile applications and websites. <u>Languages:</u> nodejs, java play framework, android (java), swift (ios), reactjs (backbone, sencha touch), C/openCV etc.
2009-10	Smart phone  <b>Role:</b> Android audio multimedia Customer Engineer	<u>Products:</u> LG GT540 (Optimus), Samsung Galaxy ...many more of 7x series <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 <u>Languages:</u> C, C++, Java <u>Other responsibilities:</u> Customer training, Documentation, Software architecture support for customers
2006-09	Set top boxes  <b>Role:</b> Engineer in Open source and BSP team	<u>Products:</u> Nevis, Pecos, Trinity (and variants) <u>Modules:</u> Linux kernel, Uboot, Proprietary kernel abstraction layer (in kernel space and user space), Busybox, Uclibc library, GDB, etc <u>BSP areas:</u> Arm 11 application processor bring-up, porting Uboot, Memory management related issues, Arm related issues (caching), etc <u>Languages:</u> C, Arm assembly, Lauterbach scripting, Makefiles

**Educational Data**

Degree	Year	University	Highlights
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
Github	<a href="http://www.github.com/archiejs">http://www.github.com/archiejs</a> , <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>