

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

## Experience

Timeline	Responsibilities & Highlights
Since July 16 (current)	<p><u>Halfchess</u> (<a href="http://www.halfchess.com">www.halfchess.com</a>) is a game for improving your chess skills while spending lesser time playing. With every release, Halfchess has been slowly and steadily growing it's userbase. I have done everything in this project - from conceptualizing, to designing an icon, to setting up scalable servers on gcloud.</p> <p><u>Archiejs</u> (<a href="https://github.com/archiejs">https://github.com/archiejs</a>) makes it easier to write maintainable code, easier to create testcases, etc. and is an open-source nodejs dependency chaining library.</p> <p>I worked on some client projects such as (1) An offline OCR Library on Android for reading bills, cards and other documents. The library extracts useful fields from complex documents in realtime. (2) A gcloud serverless single page app for migrating data between two third party web applications.</p>
Nov 15 - July 16 (8 months)	<p>A <u>high concurrency buses aggregator</u> for finding and booking bus tickets (2 months) I worked as an individual contributor in a team of 3 backend developers and had a very quick turnaround time. We built a realtime meta-aggregator for bus routes in nodejs, which provides more options to the end user than our competition. (tech: nodejs, es6/7, postgres)</p>
Consultant, <b>JioMoney, Reliance</b>	<p><u>Digital Wallet</u> (backend development, 3 months) We worked in a team of 5 developers. I picked an <b>initial architecture</b> for the server and coded some modules in it, including the ISO 8583 client module. (tech: java play, oracle db, actor system).</p> <p><u>Automated BDD testsuite</u> for android and iOS wallet application (2 months) I was a <b>team lead</b> for 2 developers and wrote about 250-300 integration testcases for Android and iOS apps from scratch. (tech: calabash, gerkin, page object model)</p>
10 - 15 (5 years)	<p>As a founder, I ran two different companies between 2010-14 - Ededaa and Flipflopapp. Each I ran for about 1+ years. Flipflopapp was an IT services company for building web and mobile apps. I had built and mentored a young <b>team of 5 engineers</b>.</p>
Flipflopapp and Freelancer	<p>Later, post Jan 2014, I worked on several startup ideas developing MVPs - as a cofounder or as a freelancer. The projects are listed in a <a href="#">gist (click here)</a>.</p>
Feb 09 - July 10 (1.5 years)	<p>In Qualcomm, I worked on <u>customer issues</u> related to audio multimedia and stability. I was a single point of contact in Hyderabad office for any multimedia audio issues on Qualcomm chipsets Arm 9 + Arm 11 and Arm 9 + Scorpion chipsets. The role involved coordinating with multiple teams in Hyderabad office and customers engineering teams in different regions - Taiwan, USA, Korea, etc.</p>
<b>Qualcomm</b>	
July 06 - Feb 09 (2.5 years)	<p>In NXP, I worked on open source tools and technologies (mainly linux kernel) and BSP development for set-top-boxes. I submitted a patch to Linux kernel community, titled "<a href="#">O_DIRECT patch for processors with VIPT cache for mainline kernel</a>"</p>
Conexant/ <b>NXP</b>	

## Patents and Open-source repos

- I independently applied for a US patent in 2013 - A system and method for delivering curated and relevant assets to end users (<http://www.google.ch/patents/WO2015083180A1>)
- I have a long history of contributing to open-source - <http://github.com/flipflopapp> and <https://github.com/archiejs>. Each of the 25+ repositories have been created by me or have my commits.

## Education

Degree	University	Highlights
Master of Computer Applications, 2006	Guru Gobind Singh Indrap. Univ. (GGSIU)	Algebraic study of discrete multidimensional signal processing, MCA 3 <sup>rd</sup> sem, 2004 (Link: <a href="#">Academic papers</a> )

## Personal Data

Date of Birth, Nationality	27-11-81, INDIAN
Languages	English, Hindi
Interests	Cycling, Chess
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>
Talks	<a href="https://slid.es/navalsaini">https://slid.es/navalsaini</a>

## Products built and Technologies used over last 10 years

Year	Tech and Role	Products and technologies
2011-16	<p>Web &amp; Mobile applications</p> <p><b>Role:</b> Startup Founder; Consulting</p>	<p><u>Technologies:</u> nodejs, reactjs (backbone, sencha touch), android (java), kubernetes, TDD, functional programming, google cloud functions, swift (ios), java play framework, C/openCV, Tesseract OCR, Gcloud, AWS, etc</p> <p><u>Products:</u> JioMoney Wallet, Halfchess, Convflow, SilentNinja, etc</p>
2009-10	<p>Smart phone</p> <p><b>Role:</b> Android audio multimedia Customer Engineer</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> <p><u>Products:</u> LG GT540 (Optimus), Samsung Galaxy, etc</p>
2006-09	<p>Set top boxes</p> <p><b>Role:</b> Engineer in Open source and BSP team</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 bring-up, porting Uboot, Memory management related issues, Arm related issues (caching), etc</p> <p><u>Languages:</u> C, Arm assembly, Lauterbach scripting, Makefiles</p> <p><u>Products:</u> Nevis, Pecos, Trinity (and variants)</p>