

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 ReactJs/native, Android/iOS native, some data science algorithms and embedded stacks/C/C++ to build MVPs.

Experience

<i>Timeline</i>	<i>Responsibilities & Highlights</i>
Since July (10 months)	Halfchess (www.halfchess.com) – a game for improving your chess skills while spending lesser time. Halfchess has been growing viral and has more and more users everyday. I have done everything in this project – from conceptualizing, to designing an icon, to setting up scalable servers on gcloud.
Independent works	<p>Archiejs (https://github.com/archiejs) – an open-source nodejs dependency injection framework which makes it easier to write maintainable code, easier to create testcases, etc.</p> <p>Various small freelance projects – (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 app for migrating data to Zoho, etc</p>
July 2016 to Nov 2015 (8 months)	A high concurrency bus data aggregator, for finding and booking bus tickets (2 months) 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)
Consultant, JioMoney Bangalore, Reliance Jio	<p>Server development for mobile wallet (3 months) We worked in a team of 5 developers. I picked an initial 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) 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 (5 years)	I ran two different companies between 2010 (ededaa) and 2014 (flipflopapp). Each I ran for about 1.5 years. Flipflopapp was an IT services company for building web and mobile apps. I had built and mentored a young team of 5 engineers.
Flipflopapp and Freelancer	Later, post Jan 2014, I had I worked on several startup ideas developing MVPs – as a cofounder or as a freelancer. The projects are listed in a gist (click here) .
Feb 09 – July 10 (1.5 years)	Customer issues related to audio multimedia and stability. 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.
Qualcomm	
Feb 09 – July 06 (2.5 years)	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 "
Conexant/NXP	

Open-source and patents

- 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> and <https://github.com/archiejs>)

Education

<i>Degree</i>	<i>University</i>	<i>Highlights</i>
Master of Computer Applications, 2006	Guru Gobind Singh Indrap. Univ. (GGSIPU)	Algebraic study of discrete multidimensional signal processing, unpublished work, MCA 3 rd sem, 2004 (Link: Academic papers)

Appendix I - 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	http://www.github.com/archiejs , http://www.github.com/flipflopapp
Talks	https://slid.es/navalsaini

Appendix II - Products built and Technologies used over last 10 years

<i>Year</i>	<i>Tech and Role</i>	<i>Products and technologies</i>
2011-16	Web & Mobile applications Role: Startup Founder; Consulting	<u>Technologies:</u> nodejs, reactjs (backbone, sencha touch), android (java), kubernetes, TDD, functional programming, google cloud functions, swift (ios), java play framework, C/openCV, Tessarect OCR, Gcloud, AWS, etc <u>Products:</u> JioMoney Wallet, Halfchess, Convflow, SilentNinja, etc
2009-10	Smart phone Role: Android audio multimedia Customer Engineer	<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 <u>Products:</u> LG GT540 (Optimus), Samsung Galaxy, etc
2006-09	Set top boxes Role: Engineer in Open source and BSP team	<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 <u>Products:</u> Nevis, Pecos, Trinity (and variants)