

I have 10 years of experience - 5 years in corporate and 5 years in startups. I have lead and hired small teams. I mostly work on Nodejs and ReactJs. I also use Android/iOS native, data science algorithms and java/embedded stacks/C/C++ in my side projects.

Experience

Timeline

Responsibilities & Highlights

Since July 16
 (current)

Halfchess (www.halfchess.com) is a novel game for improving chess skills while spending lesser time playing. With every release, Halfchess has been steadily growing in userbase. I have done everything in this project - from conceptualizing, to designing an icon, to setting up scalable servers on gcloud. [Yourstory recently covered it, 02017.](#)

Archiejs (<https://github.com/archiejs>) makes it easier to write modular code in nodejs. It is a great way to divide application complexity into modules with defined boundaries and enables easier mapping to microservice architectures as the app evolves. In short, it is an open-source nodejs dependency chaining library. [My talk at JsFoo, 2017.](#)

I worked on 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 real-time. (2) A gcloud serverless single page app for migrating data between two third party web applications.

Nov 15 - July 16
 (8 months)

A high concurrency buses aggregator 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)

Consultant,
JioMoney,
Reliance

Digital Wallet (backend development, 3 months)

We worked in a team of 5 developers. I picked a **modular architecture** for the server and coded some modules in it, including the ISO 8583 client module and an XMPP based GCM-Notification Service with backpressure. (tech: sockets, java play, oracle db, actor system).

Automated BDD testsuite for android and iOS wallet application (2 months)

I was a **team lead** for 2 developers and wrote about 250-300 integration testcases for Android and iOS apps from scratch. (tech: calabash, gerkin, page object model)

10 - 15
 (5 years)
Flipflopapp
 and Freelancer

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 **team of 5 engineers**. 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 [gist \(click here\)](#).

Feb 09 - July 10
 (1.5 years)
Qualcomm

In Qualcomm, I worked on **customer issues** related to audio multimedia and stability. I was a single point of contact in Hyderabad office for any multimedia audio issues on 'Arm 9 + Arm 11' and 'Arm 9 + Scorpion' Qualcomm chipsets. The role involved coordinating with multiple teams in Hyderabad office and customers engineering teams in different regions - Taiwan, USA, Korea, etc.

July 06 - Feb 09
 (2.5 years)
 Conexant/**NXP**

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 "[O_DIRECT patch for processors with VIPT cache for mainline kernel](#)"

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. I have published 6 Nodejs NPM repositories - <https://www.npmjs.com/~navalsaini> and a few Sencha touch plugins in past.

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, MCA 3 rd sem, 2004 (Link: Academic papers)

Personal Data

Date of Birth, Nationality	27-11-81, INDIAN
Languages	English, Hindi
Interests	Exercise, Chess, Avid learner
Open-source contributions	Npm modules (https://www.npmjs.com/~navalsaini) ArchieJS repo (http://www.github.com/archiejs) Personal repo (http://www.github.com/flipflopapp)
Talks	ArchieJS at JsFoo, 2017 Miscellaneous Talks (https://slid.es/navalsaini)

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)