Naval Saini

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India

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 java/embedded stacks/C/C++ to build MVPs.

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.
	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.
	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) Consultant, **JioMoney**, **Reliance**	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)
	Digital Wallet (backend development, 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).
	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 + Scorpian' 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.

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Education

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

Personal Data

Date of Birth, Nationality	27-11-81, INDIAN
Languages	English, Hindi
Interests	Cycling, Chess
Github repositories	http://www.github.com/archiejs, http://www.github.com/flipflopapp
NPM contributions	https://www.npmjs.com/~navalsaini
Talks	https://slid.es/navalsaini

Products built and Technologies used over last 10 years

Year	Tech and Role	Products and technologies
2011 -16	Web & Mobile applications **Role:** Startup Founder; Consulting	Technologies: 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 Products: JioMoney Wallet, Halfchess, Convflow, SilentNinja, etc
2009 -10	Smart phone **Role:** Android audio multimedia Customer Engineer	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 Languages: C, C++, Java Other responsibilities: Customer training, Documentation, Software architecture support for customers Products: LG GT540 (Optimus), Samsung Galaxy, etc
2006 -09	Set top boxes **Role:** Engineer in Open source and BSP team	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 Products: Nevis, Pecos, Trinity (and variants)

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