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

Experience

Timeline	Responsibilities & Highlights
Since July (10 months) Independent works	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. - Archiejs (https://github.com/archiejs) – an open-source nodejs dependency injection frame-work which makes it easier to write maintainable code, easier to create testcases, etc. - 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 -
July 2016 to Nov 2015 (8 months) Consultant, JioMoney Bangalore, Reliance Jio	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) - 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). - 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)
15 - 10 (5 years) Flipflopapp	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	Customer issues related to audio multimedia and stability. I was a single Hyderbad PoC for any multimedia audio issues on Qualcomm chipsets Arm 9 + Arm 11 and Arm 9 + Scorpian chipsets, coordinating across multiple teams and spread across regions.
Feb 09 – July 06 (2.5 years) Conexant/NXP	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"

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

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 (GGSIPU)	Algebraic study of discrete multidimensional signal processing, unpublished work, MCA 3rd sem, 2004 (Link: Academic papers)

Appendix I - Personal Data

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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

Year	Tech and Role	Products and technologies
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)

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