Naval Saini

navalnovel@gmail.com
+91-9560375909
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.

Employment Experience Overview

Period	Org.	Responsibilities & Highlights
Since July	- (main projects)	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 framework which makes it easier to write maintainable code, write different kinds of testcases, etc.
July 2016 to Nov 2015	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	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).
10 - 09	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.
09 - 06	Conexant/ NXP Semi-conductors	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"

Experiments 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)

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Educational Data

Degree	Year	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)
Bachelor of Computer Applications	2003	Delhi University	Tried to build a very primitive OS in assembly language

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
Engineering Blog	https://medium.com/engineering-notes

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), 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)