Naval Saini

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India

I have 10 years of experience - 5 years in corporate and 5 years in startups. I now work on web and mobile applications for consumer internet space. I used to work on embedded systems earlier.

Employment Experience Overview

Period	Org.	Responsibilities	Highlights
Since Nov 15	Consultant, JioMoney, Bangalore	Server development for mass transit application (Since May).	We are building a redbus like service using NodeJS in the backend.
		Server development for mobile wallet (Feb - May)	Started the work of writing JioWallet server using JavaPlay framework. I worked building the first version of the server - though it was not a scalable version - but was more of an exercise towards the same.
		Automated testcases for android and iOS apps (Dec -Jan)	I developed calabash based automated testcases for Android and iOS, a part of JioMoney release process. I got very interesting insights into challenges faced by testers and how automation can be employed to solve CI/CD challenges faced by orgs.
July 2010 - Feb 2009	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.
Jan 2009 - July 2006	Conexant/N XP 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" (Link: goo.gl/2QEwGi)

Open source and patents

Project Title	Highlights
Archiejs - a Nodejs Dependency Injection Framework	An open-source nodejs framework suitable for building large nodejs applications - https://github.com/archiejs
Experiments in content, news and e-learning	Applied for a US patent on search technology - http://goo.gl/KTiFn1

Startup Experience Overview

Period	Internal Projects	Highlights
12 - 15 Proof of concepts	A education app Demo on request	Building video application on iOS for creating video abstracts, video blogs and other knowledge transfer usecases.
	A fashion tech product	I worked for a few months on a fashion technology product where users can try garments online. I made a POC and here is a video link to it - click to see the demo
12 - 15 Mostly services	Self owned IT services company with a team of 5 members in past	I was involved in getting business and delivering software products. We have build various apps for our clients. Building Mobile and Webs Products on Android, iOS and MEAN stack. (http://flipflopapp.com/)
Mid 11 – July 10	EDEDAA – Art exhibitions along staircases in corporates	I was the Curator & Planner of a startup in arts industry (http://ededaa.blogsopt.in)

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Technical competency

Year	Tech and Role	Modules, Projects and Technologies
2011 -15	Consulting in Web & Mobile applications	<u>Live services & products</u>: Built various mobile applications and websites. <u>Languages</u>: nodejs, java play framework, android (java), swift (ios), angular (backbone, sencha touch), C/openCV etc.
2009 -10	Android audio multimedia Customer Engineer	<u>Products</u>: LG GT540 (Optimus), Samsung Galaxy …many more of 7x series <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
2006 -09	Engineer in linux kernel team for set-top-boxes	<u>Products</u>: Nevis, Pecos, Trinity (and variants) <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

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: goo.gl/97LYOd)
Bachelor of Computer Applications	2003	Delhi University	Tried to build a very primitive OS in assembly language

Personal Data

Nationality	Indian
Languages	English, Hindi
Github	http://www.github.com/archiejs, http://www.github.com/flipflopapp
Engineering Blog	https://medium.com/engineering-notes