

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.

I have worked on scalable nodejs systems, audio/video pipelines, hybrid and native applications, algorithms and even contributed towards the linux kernel. I am @flipflopapp on github.

Employment Experience Overview

Year	Org.	Responsibilities	Highlights
July 2016 - Nov 2015	JioMoney, Reliance, Bangalore <i>Reliance has invested \$27 billion in launching multiple digital services and a 4G network in India.</i>	To develop a high concurrency buses 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)
		To develop a backend for a mobile wallet (3 months)	We worked in a team of 5 developers. I defined an 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	Technology and product cofounder	Developing web and mobile products, conceptualizing and product managing features, etc
10 - 09	Qualcomm	Customer issues related to audio multimedia and stability	I was a single Hyderabad PoC for any multimedia audio issues on Qualcomm chipsets Arm 9 + Arm 11 and Arm 9 + Scorpion 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" (Link: https://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

Year	Internal Projects	Highlights
12 - 15	A education app Demo on request	Building video application on iOS for creating video abstracts, video blogs and other knowledge transfer usecases. (tech: swift)
	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 (tech: C, openCV)
	SilentNinja - A call blocking application	An application which intelligently blocks incoming calls on android phones (link: www.silentninja.co) (tech: Android Java)
11 - 10	EDEDAA - Art exhibitions along staircases in corporates	I was the Curator & Planner of a startup in arts industry (http://ededaa.blogsopt.in)

Technologies

Year	Role and Industry	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 3 rd sem, 2004 (Link: goo.gl/97LYOd)
Bachelor of Computer Applications	2003	Delhi University	Tried to build a very primitive OS in assembly language