

AMIT KUMAR

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Objective : Looking for an opportunity to work on cutting edge technologies and research.

Experience Summary:

- 16 years of application design and development, architecture, debugging, unit testing, requirement analysis, prototyping, automation through scripts, skill enhancements.

Skill Set

Skills	C++, C, STL, Data structures and Algorithms, OOAD, Linux, Multithreading
	JavaScript, React, Flutter, Solidity, Firebase, Google Cloud, Typescript
Domains	Blockchain, Computer Security, AI, AR/VR, EDA, WebGL implementation,
	Market Data, Internet advertising, Computer Graphics, Remote HealthCare

Projects and Responsibilities

S No: 0	Title	NFT Mobile and Web App			
Duration		2 months	December 2021 – till date	Company	In house
Activities		Full stack development in typescript and Solidity			
Technology & Tools		Flutter, Typescript , Solidity, React, Ether.js, AWS, Ethereum, Ploygon			
Description:					
➤ Develop a web application, smart contract and a mobile app for NFT application					
Responsibilities:					
➤Develop a web application, smart contract and a mobile app for NFT application					

S No: 1	Title	Yield farming DApp			
Duration		2 months	November 2021 – December 2021	Company	In house
Activities		Full stack development in typescript and firebase using anchor defi			
Technology & Tools		Typescript , React, Terra, Anchor SDK, Firebase			
Description:					
➤ Create a web application for anchor earn terra blockchain.					

Responsibilities:
➤ Develop web app which allows depositing, withdrawing and yield harvesting from anchor

S No: 2	Title	Blockchain mining			
Duration	6 months	March 2021 – August 2021	Company	In house	
Activities	Windows service for mining				
Technology & Tools	C++, Win32 API, Win32 Service				
Description:					
➤ Create a win32 service to control mining.					
Responsibilities:					
➤ Implement service which downloads correct miner and mines cryptocurrencies.					

S No: 3	Title	Child welfare web and mobile app			
Duration	6 months	Oct 2020 - March 2021	Company	OurdaysCalendar	
Activities	Feature implementation				
Technology & Tools	JavaScript, React, Flutter, Firebase, Google Cloud, Typescript, Microservices, REST APIS				
Description:					
➤ Develop mobile and web application for child welfare					
Responsibilities:					
➤ Implement new features					

S No: 4	Title	Virtuoso Checker			
Duration	38 months	June 2015 to Oct 2018	Company	Cadence	
Activities	Feature implementation, Defect fixing and debugging of Virtuoso checker				
Technology & Tools	C++, Linux, Shell scripting				
Description:					
➤ Virtuoso is a EDA tool used to design circuits. Checker checks the design constraints.					
Responsibilities:					
➤ Implement new features and fix the defects in Design rule checking					

S No: 5	Title	DTV web browser			
Duration		26 months	May 2013 to June 2015	Company	Samsung
Activities		Defect fixing and debugging of Digital TV web platform			
Technology & Tools		C++, Webkit, Linux			
Description:					

➤ Samsung DTV contains web browser. This browser is based on webkit. I was responsible for WebGL conformance for the browser.
Responsibilities:
• Fix bugs in WebGL compliance

S No: 6	Title	Development and maintenance of Market data components			
Duration	10 month	Oct 2011 to Sept 2012	Client	Credit Suisse	
Activities	<ul style="list-style-type: none">• Development of custom data collectors around OneTick Database• Maintaining existing collectors				
Technology & Tools	C++, Java, Linux, OneTick, Shell scripting, 29West				
Description:					
<p>➤ Collectors and loaders are data collectors which read data from market feeds and uploads them in OneTick database. These can be out of box or custom based on requirements.</p>					
<ul style="list-style-type: none">• These collectors and loaders are components of OneTick database. There are out of box components and custom components.• OneTick which is a vendor software which exposes API's which are used to develop custom components.• Feeds are collected through various sources e.g. raw sockets or middlewares like 29West.					
Responsibilities:					
<ul style="list-style-type: none">• Development and maintenance of collectors and loaders.• Troubleshooting and timely solution of production issues.• Loading old and new data. Splitting databases and data.• Training new members in the team. Getting them up to speed.• Handling production issues. Helping users to use the data.					

S No: 7	Title	Architecture and Design of Ad delivery backend system			
Duration	1 year	July 2010 to June 2011	Client	Dijipop	
Activities	<ul style="list-style-type: none">• Architecture of High Availability system• Deciding communication pattern and data structures• Development of Apache module and Caching mechanisms• Maintenance of Log Processors				
Technology & Tools	C++, Linux, Apache, IPC,OOPS, Memcached, Shell Scripting, Nagios				
Description and Responsibilities:					
<ul style="list-style-type: none">• HA and dynamically configurable system.• I implemented 2 out of 5 modules which included Publisher Engine, Response Cache along with Log backup scripts.• Publisher Engine is an Apache module and written in C++ and talking to other modules and memcached server, on TCP and UDP Sockets, via shared memory and message queues.• Response Cache is responsible for creating and maintaining the cache for banners to be delivered. Memcached servers were used to increase performance• Counters have to keep track of no of Ads delivered and be available with the data when queried from other components.					

S No: 8	Title	Development of web based virtual trialing of eye wears			
Duration	19 months	Oct 2008 to June 2010			

Activities	<ul style="list-style-type: none"> Development of business plan Technology survey for finalizing on technology roadmap Team building for the execution of idea Development of prototype, Fund raising, pitching to investors & Customer Survey
Technology & Tools	O3D (Direct 3D/OpenGL), Javascript, HTML, Matlab, Sketchup, OpenCV
Description and Responsibilities:	
<ul style="list-style-type: none"> Idea was to build softwares for trial of lifestyle products. In order to make the advertising of these products much more engaging for customers at the same time being fun. Development of prototype which ran as web application. With all 3D processing happening at front end in Javascript while back end was responsible for feature extraction in C# and OpenCV. Customer Survey was done and mixed feedback was received. 	

S No: 9	Title	Development of Micro Insurance and Healthcare Application			
Duration	6 months	August 2009 to January 2010		Client	Care Hospitals
Activities	<ul style="list-style-type: none">Understanding Customer requirementsDevelopment of UI, database handling, server communication and biometric functionality				
Technology & Tools	C, SQLite, Linux, Geoamida, Alchemy framework, CURL				
Description and Responsibilities:					
<ul style="list-style-type: none">Application presented a health questionnaire to the user after they pass biometric identification. User selects answers and submits. Based on user response a medication is suggested, or if the symptoms are serious an appointment with the doctor is generated. If user chooses to purchase the product, a bill is generated for the same. User can also get their vital health statistics recorded, for the further use. All these data is updated in local database.Local database constantly syncs with main server database through GSM networks to update the server database , gets the new questionnaires, products and other application data.					

Organization summary

Organization	Location	Duration		Designation
Cadence	Noida	June 2015	Oct 2018	Principal Software Engineer
Samsung	Noida	April 2013	June 2015	Chief engineer
Exact Solutions	Mumbai	March 2013	March 2013	Senior Software Engineer
LSI	Pune	Sept 2012	Feb 2013	Senior Software Engineer
Credit Suisse	Mumbai	Oct 2011	Sept 2012	Analyst Developer
Synechron	Pune	July 2010	Oct 2011	Senior Associate
Entrepreneurship/Consulting	Bangalore	May 2009	June 2010	Developer, Entrepreneur
Vmware	Bangalore	Nov 2008	May 2009	SQA
Wipro Tech	Bangalore	Aug 2005	Oct 2008	Project engineer

Education

Qualification	Institute/Board	Percentage	Year
B.Tech(Chem)	IIT BHU	65	2001-2005

10+2	CBSE	74	1999
10 th	CBSE	75	1997

Personality Traits

- Excellent vocal and written communication skills
- Like to read in free time
- Risk taking and assessment ability

Personal Details

Father's Name : Mr Narendra Kumar Singh
 Mother's Name : Smt Manju Singh
 Date Of Birth : 17th Feb 1982
 Place of Birth : Samastipur, Bihar
 Passport No. : G4342510
 Hobbies : Reading, Music, Football