

Consultant Profile

Kumar Deepak

Solution Architect and hands-on developer on a wide range of technologies and languages with over 17 years of leadership experience in designing innovative solutions for clients. Skilled in cloud computing, information management, application development, and virtualization. Demonstrated mastery in evaluating requirements for application integration, availability, scalability and system maintenance. Proven mentor and training with expertise in communicating across organizational levels and with cross-functional teams to drive shared vision and foster culture of excellence.

Skills

Programming language	Assembly language i386/IA32, PowerPC, C, C++, Java, Obj-C, JavaScript, Python, Android, ReactJS, ReactNativeJS
Scripting	Perl, Bash
Operating system	Linux, MacOS, Windows, Solaris, AIX
Databases	MySQL, Postgres, Oracle, Mongo, Elastic, Redis, Neo4J, Sqlite3
Cloud	AWS, Azure
Technologies/Framework/Tools	SIP, RTP, ISUP, SS7, XMPP, Rasa, TensorFlow, NLTK, Spacy, Dockers, Kubernetes, GIT, SVN, PKI
Area of interest	Algorithm, Cryptography, Probability, Statistics, Calculus, Mechanics, Software reversing and security assessment.
Artificial Intelligence	NLP, Computer Vision, BERT, PyTorch
Big data	Hadoop (HDFS), Spark, AirFlow

Assignments

Tarento Technologies Pvt Ltd

Jun 2009 - till date

Co-founded, built and still nurturing my role as Solution Architect and Developer under Tarento's umbrella. I have been part of various projects that require end-to-end solutioning. Typically my engagement mostly starts from understanding and listening to clients' business requirements. These requirements need to be broken down before communicating and presenting as tangible development pieces for the development team. The size of client and project tenure varies from multi year contracts to couple of man months. The project size fosters the need of creating reusable assets and propels me to acquiring new skill sets. Clients' needs ranged from mobile and web frameworks to scalable and available backend systems. Customers' problem and choices of solution enables me to evaluate cutting edge and newer technologies and toolsets. Some of the most recent projects that I would take highlight are

Clients	Roles and contribution
Anuvaad	<p>Anuvaad is a Neural Machine Translation system very similar to Google's Translate. Anuvaad is primarily trained for Indian Legal data and performing very well in this specific domain. I am responsible for architecting, solutioning and developing this open source system. We are a 15 members team dedicated to this project. Contribution at Anuvaad</p> <ul style="list-style-type: none"> • Architecting and solutioning Anuvaad • Managing product backlog with the input from product team • Communicating with various involved stakeholders • Big data pipeline to manage TB scale of data, scalable upto PB
Aadhaar Chatbot	<p>Aadhaar is the world's largest identity authentication system. I was responsible for re-architecting, solutioning and development. Contribution at Aadhaar</p> <ul style="list-style-type: none"> • Communicating with different stakeholders and finalizing development backlog. • Architected and developed classification model • Re-training pipeline for continuous training and evaluation. • Mentoring and evaluation of related technology stack
eGovernments Foundation	<p>I am the account responsible and eventually project responsible for a team of 7 people. We started with various municipal modules starting from Water Charges, Trade licenses, Performance Management System, Finance</p> <ul style="list-style-type: none"> • Interacting with business team and mapping development requirements to team members. • Developed ReactJS based web application for PMS • Contributed modules for eGovernment UI framework with custom reusable components. • Contribution are present on GITHUB repo of the

Consulting Manager: Vijay Prasanth Sunkeswari
 Phone: +91-9945216638/+91-80 25504269
 Email: Vijay.Sunkeswari@tarento.com

	eGovernments
Zaark	<p>Zaark is into cloud based VOIP telephony and chat systems. Some of my contribution are</p> <ul style="list-style-type: none"> • Architect and documented Zaark SDK that is available for various platform like Web, IOS, Android • I have coded and licensed Tring to Zaark, a cross platform chat SDK that is part of Zaark SDK • Contributed SRTP implementation on Blackberry client • Still participate and consult on various blocking issues related to VOIP and CODECS. • Implemented H264 codec on IOS & ANDROID platform.
AXA XL	<p>The project intends to do gamification for AXA-XL employees and enterprises expect greater participation from their employees. The employee can look at their career path and various skills needed to enhance them. I was responsible for</p> <ul style="list-style-type: none"> • Architecting the solution on Azure cloud services. • Monitoring, deployment and service usage • Communicating with the client and other stakeholders on the solutions, teams progress.

SixDEE Telecom Solutions Pvt Ltd

Jan 2004 - Jun 2009

Started as part of the company's core team and graduated from the role of Developer to Solution Architect. During my tenure I was part of designing, building, presenting and deploying telecom solutions like IVR, MCA, SMSC, USSD, Lawful Interception System, VOIP, SRTP for prominent Indian and International Telecom Operators. These systems demanded scalability and high availability of five-9's along with required business features. I have used open source tools like DBBD, UltraMonkey (Linux LVS) to create clusters and eliminate SPOF to achieve the laid out criterion. I got an opportunity to be part of presales, sales presentation, contract negotiation, demonstrating the system for final acceptance and setting up of post go-live maintenance period as well.

The primary technological tool-set that I have enhanced and used are: C, C++, Java, Perl and BASH scripts, Telephony hardware integration from various vendors like Intel, AudioCodes, Dialogic. Understanding and implementation of SS7, ITU standards related to CAMEL, ISUP, CAP, MAP along with BSS and NSS part of telecom network.

Odyssey Technologies (P) Ltd

Oct 2002 - Jan 2004

I was primarily responsible for developing and porting big number arithmetic operations in assembly language for Intel i386, PowerPC and ARM instruction set. The developed library became part of Odyssey PKI product suite. The library indeed passed NIST certifications and there was significant performance improvement when it comes to key generation and big number operations.

Consulting Manager: Vijay Prasanth Sunkeswari
Phone: +91-9945216638/+91-80 25504269
Email: Vijay.Sunkeswari@tarento.com

Library was also cross compiled for the Symbian Series 60 C++ platform to provide on-device cryptographic capabilities for various defence grade usage.

Career History

Tarento Technologies Pvt Ltd.
Co-founder & CTO

July 2009 - till date

SixDEE Telecom Solution Pvt Ltd
Technical Architect

Jan 2004 - Jun 2009

Odyssey Technologies (P) Ltd
Software Developer

Oct 2002 - Jan 2004

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Educational Qualifications

Qualification	Year of passing	Institution	University
B.Tech	2002	IIT-BHU	BHU
HSE	1996	DAV PUBLIC SCHOOL	CBSE
SSE	1994	DAV PUBLIC SCHOOL	CBSE

Language Skills

- English – fluent
- Hindi - fluent