Soumyadipta De

# Profile Summary:

Application Architect with more than 7+ years of experience in Cloud-Based Application solution design, Micro services. Hands-on development experience using Node.js, Java,web technologies, AWS, Docker, S3, Lambda, GraphQL (AWS AppSync), API Gateway Git, Scrum

* Total experience 16 Years
* 7 Years of AWS cloud experience
* Architecting Micro Services
* Server-less web application architecting
* Hands-on experience in Ajile / Scrum using JIRA and task distribution
* 7 Years of Team / Project Management experience
* Expert communication, interpersonal, and organizational skills.
* Hands-on experience in SOW writing with effective time and cost estimation
* Special interest in AWS, Node.js, Lambda, API Gateway, EC2, S3

**Current Organization**

Alumnus Software Ltd from 2004 – ongoing

**Designation** – Member of Distinguished Stuff

**Role** - Project Manager

**Qualification**

B.Tech from Indian Institute of Information Technology with overall 80% from 10+ standards

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| --- | --- | --- |
| 10 | 1997 | 86% |
| 10+2 | 1999 | 80% |
| B.TECH | 2004 | 80% |

# Current Responsibility (Clod Computing):

* Managing multiple projects
* Understanding customer / product requirement
* Converting SRS to technical specification with effort estimation
* Technical Guidance
* Task distribution
* Web Application Solution Architecting
* Server side coding using Node.js, Lambda, MySql, Postgres, API Gateway
* Release and Delivery management

# Specialization (Clod Computing):

One or more years of hands-on experience in designing available, cost efficient, fault tolerant, and scalable distributed systems on AWS.

* Designing and developing scalable, highly available, and fault tolerant systems on AWS
* Restful API services; and web-based front-ends with modern, highly interactive UI
* Lift and shift of an existing on-premises application to AWS
* Selecting the appropriate AWS service based on data, compute, database, or security requirements
* Identifying appropriate use of AWS architectural best practices and Cost aware solution design
* Ability to identify and define requirements for an web application

# Solution Design Expertise:

* Cloud based data flow pipeline
* Cloud based micro service architecture and messaging system
* Cloud based distributed Business web application , Dash boarding, IT Operation Applications
* Distributed Notification & Alert System
* Cloud-based user and system log management, monitoring and analytics framework design and development.
* Distributed Web socket based Communication Framework using Node.js and Pub-Sub Architecture
* Data flow and work flow pipeline protocol design and implementation experience
* Web portals , Administrative portals end to end solution design and implementation experience
* Rest Based API , SDK and developer management framework design experience
* Protocol Testing tool Design and development experience

# Technology Expertise:

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| --- | --- |
| **Platforms** | Windows, Ubuntu, Amazon, Docker |
| **Cloud Technologies**  **( 2009 - 2018)** | EC2, Lamda, NGINX, PubSub , NodeJS, Redis, AppSync, SES, CloudWatch, API Gateway, SNS, SQS,S3 |
| **Core Technologies**  **( 2009 - 2016)** | Java, Java-Script, Node.js, Web Technologies, JQuery |
| **Technology Background**  **(Initial 4 Years 2004 - 2008)** | C, C++, VC++, Windows Programming, WxWidgets |
| **Database** | Mongo (basics), Amazon RDS (MySql), Postgres |

# Key Projects:

* Smart watch based health data monitoring on cloud dashboard using AWS technologies
* **Docker CI /CD Pipeline** using Jenkins, Docker-compose, Git, watchtower
* **Content Management System** using AWS, Lambda, S3, EC2, RDS
* **Sensor data Monitoring dashboard** using docker, Node.js, EC2, S3, NGINX, D3
* Online and offline data pipeline using **web socket** and **PubSub**
* **Amazon cloud based web application solution architecture design** for biological domain using AWS services like EC2, Lambda, S3, RDS, NGINX etc..
* **Cloud-based user interaction log management and analytics application for tracking** and monitoring user and system wide activity
* **Cloud based dashboard solution** to connect and control multiple client nodes from a central point.
* **Implementation of a rule and question based Chatbot** **application** for a specific domain defined by SBI using Node.js, HTML5 and Java Script
* **Implementation of APP Store, Native and cloud Dashboard for biological research domain** defined by System Biology Institute using Java, Node.js, HTML5, JavaScript, Mysql db, HSQL db
* **Horizontal clustering of Node.js based application server over cloud** and on multiple physical servers using Amazon cloud infrastructure like EC2
* **Node.js based multi device, multi-platform notification engine over Amazon cloud**. This is a complete pub sub based notification system with auto sync support
* **Modern horizontally scalable and fail safe web application architecture** using Amazon EC2, RDS, S3, Nginx, tomcat, MySQL
* **Developer portal to manage different versions of SDK's , APPS and related assets** , documentations using Amazon S3 and RDS
* **XMPP and Openfire based multi-protocol communication system** using Java and smack
* **Protocol stack implementation as defined by Consumer Electronics Association (CEA)** and building protocol confirmation test suite using Java, Swing, Upnp
* **Web based Router Configuration Manager** for different routers using C, HTML and JavaScript
* **Web based Automated Protocol Testing Suite and Report Generation** for proprietary JSON based REST protocol.
* **Java / HTML / Nodejs based dashboard** to download, launch and manage proprietary applications.
* **Amazon S3 and Nodejs Based product Release Management portal**

# Personal Interest and Achievements:

* Published photograph in **National Geographic Daily Dozen** section on **Dec 23 , 2013**
* My photograph get published in daily newspaper **Telegraph** on **May 2013** in section **“T2 Click”**
* One of My photograph is also available in **National Geographic Stock** “<http://www.nationalgeographicstock.com>”
* My photograph selected on **National Geographic Gallery “Your India” on March 2013**
* My photograph printed on **POST-CARDS** section in the “**Lonely Planet Magazine”** on **November 2012**
* My photograph printed double spread in the “**Lonely Planet Magazine”** on **September 2012**
* My photograph printed in the Bengali Magazine **Lets Go** on **June 2012**
* My photograph published on daily English news paper **“The Statesman”** in 2011
* My photograph selected as **National Geographic** wallpaper in 2011
* My photograph printed on the cover page of **Better photography** magazine on **September 2011**
* Published photograph in **Better photography magazine** for **5 times** and In the sections like

“Photo Critique”, “Tips and Tricks”, “Your Pictures”

* **Published Dates**:-
  1. June 2010,
  2. July 2009,
  3. November 2008,
  4. June 2009,
  5. September 2011
* Published photograph in **Bengali Travel Magazine** **“Let’s Go ”** In the sections “Readers Pictures” on June 2012
* Published photograph in **Asian photography magazine** In the section

“Photo Montage” **on December 2009**

* Published photograph in **National Geographic Daily Dozen** section for 3 times on dates

FEB-04 2009

Jan-04 2010

DEC-01 2009

* Photo of the week award in the “**Photo Burst Travel photography Daily contest**” in June 2009
* 4 photographs have been nominated for the “**National Geographic Image Sales** **and stock division**”

# Personal Information:

* Grand Father: Doctor
* Father: Lt. Sujay Kanta De (MSC IIT BHU)(Teacher)
* Mother: Dipti De (High School Math Teacher)
* Brother: Senior IT Project Manager
* Date of Birth: 27/11/1980
* Religion: Hindu
* Nationality: Indian
* Sex: Male
* Marital Status: Married with 2 School going Kids
* Interest: Regular high altitude trekker (Annapurna Base camp, Bagini Glacier, Kedar Tal, Tapovan etc..)

# Contact Details:

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