## **Chenna Reddy ALAVALA**

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## **WORK EXPERIENCE**

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| * *Experience* | 9+ years |
| * *Employer* | Sapient |
| * *Designation* | Senior Associate Level 2 |
| * *Technologies* | C/C++, STL, Java, C#, Android, Oracle, Unix , Shell Scripting and little exposure to Web Technologies like Html, Java Script.. |
| * *Certifications* | Sun J2SE & Brain Bench C, C++, OO and Programming concepts |
| * *Strengths* | Good @ Designing, Algorithms and Problem solving |

## **JOB DESCRIPTION**

I am presently working as Senior Associate L2 @ Sapient.

Exposure and competency in following Technical areas:

* + Data structures and Algorithms
  + Design Patterns, OOAD and UML
  + STL
  + Multi-Threading
  + Network programming
  + XML, XSLT, SOAP and Web services
  + Mobile development (Android)

## **PROJECTS**

* **Clearing and Settlement (Sapient)**

*Description of the project:* Enhancing and Maintaining Clearing and Settlements Application for one of the clients. Mission is to support straight through processing of trades booked in front office resulting in trade confirmation being delivered to Prime Brokers/Clients while utilizing real-time visibility into exceptions as well as on-demand information with audit-trail of all the records processed actively based on internal and external trades.

*Technologies:* C++, STL, Boost and LINUX

*Highlights:*

* + Very high throughput (2million trades/day)
  + Quick turnaround time for business changes as most of things are configurable
* **Application Server (Infosys)**

*Description of the project:* Any Banking product has several modules and all the modules has same challenges like

* + Session management
  + Managing business Objects
  + Search
  + Security
  + Data persistency and faster selection
  + Replication and Availability
  + Easy development of Screens and Blotters/Tables

Application server takes care of all above challenges and developer has to just concentrate on Business Logic.

*Technologies:* C++, STL and UNIX

*Highlights:*

* + Distributed computing
  + Moving Computation to Data (like in Map Reduce)
  + High Availability with replication and Distribution of Data
  + Automated Garbage Collection
  + Easier Customization for clients
* **Shared Object pool**

*Description of the project:* Many server side applications (processes) can only serve the requests from a single client. Most of the cases all these processes need to maintain some static data which is common among them. Every process maintaining this data might cost lot of resources like RAM and CPU. This project aims at providing a shared object pool where different C++ objects could be stored in shared memory, accessed and searched by different processes. This could be mainly used for different static data’s like permissions for different roles, every changing market rate items etc.

*Technologies:* C++, STL and UNIX

*Highlights:*

* + Reduced RAM usage by 50MB per process
  + Increased the performance as only one process needs to do the live updates
  + Search made simpler
* **Role Based Access Control (RBAC)**

*Description of the project:* Role-based access control (RBAC) is a framework for controlling user access to resource based roles. It can significantly reduce the cost of access control policy administration and is increasingly widely used in large organizations and applications. This project aims at implementing a generic RBAC system which could be plugged into any product with minimal changes to the product without impacting the product’s performance.

*Technologies:* C++, STL and UNIX

*Highlights:*

* + This makes any product RBAC complaint with very little efforts
  + Very less memory consumption by using shared object pool mentioned above
  + Good performance
* **Finacle Treasury Offshore Development, Maintenance and Support**

*Description of the project:*

Enhancing the product with different new modules as per the requirements either from the clients or from the market. As I have been working in same product from 6years, I have worked in all the phases of SDLC.

Supporting clients all around the globe (Credit Suisse Singapore, New York, Zurich and EC London with workarounds, maintaining product with smaller enhancements.

*Technologies:* C++, Pro C, UNIX, Oracle and Corba

*Highlights:*

* + Known for applying design patterns very well
  + Improved the performance of the system by finding and reducing the bottlenecks
  + Very good feedback from all the clients worked with
  + Providing help all the project member in critical situations outside my team too
* **Finacle Treasury – SOA compliant**

*Description of the project:* Finacle Treasury was a traditional client server application, which is not in compliance with SOA (Service Oriented Architecture). This project’s motive is to develop different service providers for different Finacle Treasury services like deal capturing, deals enquiry, deal settlements etc, so Finacle Treasury would be compliant with SOA.

*Technologies:* Java and C++

## **EDUCATION:**

* **Bachelor of Technology in Computer Science and Engineering** with **83.46%** (2000-2004) from V R Siddhartha Engineering College, Nagarjuna University, India.
* **Diploma in Computer Science** with **80%** from Andhra Polytechnic College, Kakinada
* **SSC** with 83%

## **OTHER DETAILS**

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