

# ABHIJIT MEHTA

## SOFTWARE ARCHITECT AND TECHNOLOGY ENTHUSIAST

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### Summary

- A multi-skilled technical architect with substantial experience in Analysis, Design, Development, Deployment and Operations of software solutions.
- Telecom domain Design Authority with extensive experience in BSS, Telecom Mediation , Billing, Rating and CRM software and solutions.
- Specialised in upgrade, migration and integration projects with keen eye for issue identification and resolution.
- Highly skilled in product evaluation, interface definition, sense to evaluate market trends and set development road maps for the products.
- Proven ability to both contribute individually and lead project teams to successfully deliver high performance , highly available and secure solutions of the highest quality, often in complex and challenging customer environments
- Extensive experience in Performance Architecture and Re-architecture , with hands on ability to program complex algorithms and modules.
- Key Personal Attributes: Quick Learner, Excellent Communicator, Proactive, Solution Driven,Analytic Thinker, Good performer under stress, Excellent Oral and Written Communication skills, Eager to learn new technologies

### Work History

Nov 2014 - Present

Software Architect

*Amdocs UK Ltd*

#### Technologies

C++,Linux (RHEL),SQL(Oracle),Unix(HPUX),Linux (RHEL), Apache, REST APIs ,Storage:Local/NFS-SAN,NAS,Cloud

#### Duties

- Producing coherent technical proposals that meets the customer requirements.
- Translating technical jargon to Business language and vice-versa to ensure sync between Business Need and Development.
- Designing and specifying medium and large software systems.
- Programming and Debugging complex Algorithms and solutions
- Open Source Products and Code evaluation and adoption ( requiring judgement necessary to choose the best solution - considering ROI - to complex problems)
- Leading teams in the design of new applications, configuration of system upgrades and development of new programming tools.
- Building relationships with clients, technical teams and external contractors.
- Addressing RFPs and assist sales with RFP responses.
- Architecting legacy systems to modern and better optimised systems to be used as strategic solution for various existing applications.
- Leading Performance Architecture and Re-architecture, Gap Analysis and

### Education

Aug 2002 -Jun 2006

Computer Science and Engineering (Hons)

[NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR,INDIA](#)

### Skills Overview

Domain knowledge



Telecom BSS : Billing , Rating , Mediation , CRM

C++ - PROGRAMMING AND DEBUGGING



OOPs Concepts, Data Structures , STL , Boost , Casablanca , GDB , Electric-Fence , Valgrind

RELATIONAL database



ORACLE ( SQL, XQUERY, PL-SQL ,ANALYTICS, TUNING) MS-SQL ,MYSQL

Shell - Linux/Unix



Shell Scripting , bash,kash,awk,perl,sed

Web Technologies



LAMP , IIS ,Casablanca ,REST APIs (Dreamfactory , AWS , Azure)

Design Tools



Visio , Enterprise Architect , proto.io ,open and online wireframing tools

Performance ARCHITECTURE



Optimisation for Variety of Applications (Frontend , Backend , Database ) , Functional Areas ( Operations , Infrastructure , New Development , Real Time Monitoring and Alerting) and Business Domains (Postpaid Rating , Mediation , Billing , CRM )

- Owning Billing and Rating/Charging - MVNO interface for EE's MVNOs( BT , Telecom Plus and others) mobile platform for functional and operational requirements.

#### Projects

- Client : EE UK
- Designed and successfully delivered Rating/Charging and Billing solution for 4G ( LTE , VoLTE, SoLTE , VoWifi) Offerings , acting as Lead Design Authority for Postpay .
- Designed Rating/Charging and Mediation solution for Ofcom regulatory NGCS(Non Geographical Call Services) Requirement
- Designed and Implemented Flexible BI and Reporting solution over the LAMP stack acting as Individual and Sole Contributor to the project
- Achieved stringent delivery timelines for Business Critical Time-to-Market project requiring complex solution design and programming to develop tools and portals to delivery offerings to market in the earliest possible time.
- Initiated , convinced stakeholders on-boarding ,designed and delivered Strategic Near-real time Postpay CDR and CRM data availability to BI Transformation Project as lead Architect.

Nov 2011 -  
Oct 2014

#### Development Expert

*AMDOCS UK LTD*

#### Technologies

C++,SQL(Oracle),Unix(HPUX),Linux (RHEL), Apache

#### Duties

- Designing (High Level ) on various Billing , Account Receivables and Rating/Charging Product requirements
- Owning Billing , AR and Rating/Charging interfaces with - BACS , Banks , Revenue Assurance , Credit Risk , Account Payable , SAP , Accounts Receivable, print shop ,IVR , self-service , SOA middleware , Data warehouse .
- Programming selective complex algorithms and modules
- Application Performance Optimisation and Tuning for High Volumes and High Availability.
- Debugging

I was promoted and became the youngest Development Expert on site amongst a team of highly experienced programmers and experts.I established myself and got recognised as one of the top programmers in the division.

#### Projects

- Client : EE UK
- Unix to Linux Transformation projects
  - Successfully deployed ( with zero production defect) the very first Unix to Linux transformation project as Technical Lead . The project was highly technical project involving high level of planning for both hardware and software changes . Clients benefitted with increased throughput and reduce licensing costs .
  - Consultant in the second similarly scaled transformation project starting in mid 2013
- Led performance optimisation workforce and and deployed a series of product ,storage and hardware for Mediation system to cater for huge volume CDR explosion . Initiated , Designed ( occasionally developed) various deliverables as Scalability Architect for Capacity Forecast and

Application and System Analysis using strace,lsof,nmon parsing,thread dumps,throughput , memory profiling,hexdump ,disassembly

#### Cloud infrastructure



AWS

Other software skills and exposure



C , COBOL , VB , Timesten , Berkley DB , ASN1 ,NOSQL

communication skills



Excellent written and Verbal communication skill

problem solving



Strong Analytical Problem Solving skill

OPEN SOURCE AND FRAMEWORKS



BI :REPORTSERVER , M2M/IOT : THINGSPEAK ,COMMUNICATION : MATRIX ,API : DREAMFACTORY

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## Personal Details

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DOB: 16/04/1983

Driving license: Yes

Nationality: India

Eligibility to work in UK : Yes (ILR)

Planning . Some major deliverables consisted

- ASN1 encoders and decoders during the project.
- Achieved uplifting Mediation and Rating systems (processing Billions of CDRs per day) throughput by ~400% starting in mid 2013 .
- Distributed and Parallel Database Access for Rating/Charging daemons with zero downtime .
- Hybrid DB and File Processing for High Availability and faster processing of Mediation and Rating Auditing
- Reduction of system calls and redesign of algorithms across process for lighter CPU consumption
- I/O optimisations

Sep 2010 -  
Oct 2011

Senior Subject Matter Expert

*Amdocs UK Ltd*

Technologies

C,C++,SQL(Oracle),Unix(HPUX)

Duties

- Designing (High Level and Low Level Detailed Programming Design)
- Programming and Debugging

Summary

Moved back to working in Telecom Billing Domain , with added Customer Facing responsibilities. Extended my involvement in Revenue Management (specially accounting modules ) during my tenure here. I became the lead in both Billing and Finance Modules for design , development and operations during this tenure. Exposure to Operations and Production systems helped me develop into a very performance ,scalability and security centric programmer and solution designer. I was recognised as a key contributor on-site amongst a team of highly experienced seniors .

Aug 2009 -  
Aug 2010

Application Engineer

*Oracle india pvt. ltd. - bangalore india*

Technologies

C++ , Visual Studio

Duties

- Solution Designing (High and Low Level Detailed Programming Design)
- Programming and Debugging

Summary

Worked in Siebel Product Development team in Oracle Health Sciences Global Business Unit . Designed and Developed several product plugins from CAB wishlist of leading pharma companies on Siebel CTMS and AEM products.

Jul 2006 -  
Aug 2009

Subject Matter Expert / Senior Subject Matter Expert

*AMDOCS DEVELOPMENT CENTRE -PUNE, INDIA*

Technologies

C,C++,COBOL,SQL(Oracle),Unix(HPUX),TSQL(MS SQLServer),VB

Duties

- Designing (Low Level Detailed Programming Design)
- Programming
- Debugging

Summary

Worked as Programmer in Telecom Billing Domain ,majorly for Sprint(US) , Vodafone(UK) and also for T-Mobile(UK) for various projects. Owned and took accountability of successful delivery of many complicated projects - (a) On Demand Billing Simulator and (b) IPDR Billing ,being two biggest development (in terms of requirement criticality and complexity) .