George Zhai

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Professional Summary

Solutions Architect with experience of delivering Cloud Solutions and Enterprise Mobility Solutions.

Strong technical background in Software Development, System Integration and TCP/IP, Telecom Network

Career Achievements

Provided solutions and delivered multiple Cloud and Mobility projects.
Initiated mobility and cloud in SydneyTrains.
Successfully lead teams in Nortel R&D
14 years cross domain work experience

Experience

Cloud A& DevOps specialist
2016 - 2016   SAI Global   (Contractor)   Sydney, NSW, AU
Overview
 This project delivers a new e-commerce platform in AWS.
Contribution
 Provide infrustructure solutions on AWS
 Create POCs to evaluate solution options
 Present and demo the design, manage stakeholders
 Create CI/CD pipelines.
 Implement and provide support for project environment.

Technologies & Tools
 Ansible, TeamCity, JIRA, wso2esb, wso2is, intershop, Ektron
 AWS – Cloudformation, EC2, S3, Lambda, SNS, SQS, ElasticSearch, IAM,
 Python, Java,

Solutions Architect –Cloud & Mobility
2014 - 2015   Sydney Trains (Contractor)   Sydney, NSW, AU
Overview
Provide solutions for cloud and mobility related projects.
Contribution
 Provide AWS solutions for multiple projects. (VPC, EC2, Lambda, DynamoDB, S3 …)
 Provice mobile App solutions. (Hybrid)

Provide solution for web app with responsive design (Node, Angular, Express, MongoDB, etc.).
Provide solution for mobility backend (node.js, mongoDB).
Provide SAP Mobility Platform proposal and initiated POC
Implement DevOps in AWS environment. (gitlab, puppet and Jenkins)
Design and Implemented Lync online solution..
Office 365 Hybrid Exchange online project.
Provide PaaS mobility backend solution and prototype with Azure (Mobile service, BizTalk,) and AWS (Lambda, DynamoDB,S3)
Provide cloud infrastructure solution for TIBCO upgrade project, K2 project, IAM upgrade project (AWS)
Provide technical support for Sydney Trains AWS account, Lync online service, iOS enterprise program.

Technologies & Tools
Puppet, Jenkins
AWS – EC2, S3, Lambda, SNS, IAM,
Cordova, HTML5/JavaScript
Node, Express, Angular, MongoDB
Lync online (SkypeForBusiness), Azure AD

Mobility techinal Lead
2013 - 2014   *Sydney Trains (Contractor)*   *Sydney, NSW, AU*
Overview
Based on my prototype mobile app, Sydneytrain started a new team to provide mobile apps for business.
My contribution
Lead a team with 8 developers and tester, work on multiple mobility projects.
Get requirements from business and also provide solutions
Started first Agile project in SydneyTrains.
Started first project using AWS in SydneyTrains..

Major Apps:
  mFS (mobile Fleet Service), mIIMS (mobile Incident Information Management System), mAM (mobile Asset Maintenance) iOS apps have been rolled out to over 2000 Maintenance and Operation employees to improve the efficiency of their daily work.

Major Integrated backend systems:
  TEAMS3 (Asset Maintenance Work Order and Defect Management System - .NET technology).
  ICFMS (Integrated Contract and Fleet Management System – J2EE/Websphere technology).
  IIMS (Incident Information Management System – Oracle database Application).
  ELLIPSE (ERP system - JAVA).
  AWS (Amazon Web Service S3, EC2, SES – Cloud).
  Initiated and drove agile methodology adoption in SydneyTrains.

Technologies & Tools
Sencha Touch, Java, HTML5/JavaScript, PhoneGap, Node.js, PHP, Python
AWS S3 SES STS EC2
My initiatives
Created SydneyTrains AWS account and started first project in Sydney Trains
utilizing Cloud service.

Test Manager
*2013   RailCorp Reform Program (Contractor)   Sydney,
NSW, AU*
Project overview
RailCorp Reform Program separates RailCorp to three new companies: SYDTrains,
NSWTrains, and TransportCleanningServie (TCS). Part of this program changes IT
system to accommodate the organizational change.
My contribution
Identify impected areas, Create test strategy, Coordinate multiple streams, Please test
resources. Report progress and discover risks, issues and problems.
Technologies & Tools
ERP (Ellipse), Procurement (ARIBA) , BI (COGNOS)
Oracle Database 11g
Sun IAM 8.0 (OpenSSO)
ESB (TIBCO , Mule)
My initiatives
Built a prototype mobile app to mobilize a key business application, and proposed
solution to Fleet Maintenance business, Started SydneyTrains Mobility Team with
productionalizing this prototype.

Performance & Automation Test Lead
*2010 - 2012   RailCorp PPP Project Team (Contractor)   Sydney,
NSW, AU*
Project overview
PPP project was building over 20 new applications to support running and
maintaining Waratah Trains, It's a complex system integrates to business partners
and many legacy applications.
My contribution
Successfully delivered performance test and tuning for new applications.
Lead off-shore team to deliver automation function test scripts.
Provide recommandations to improve capacity and performance.
Technologies & Tools
WebSphere Application Server and Portal Server
Oracle Database 11g
Sun IAM (OpenSSO 8.0)
ESB (TIBCO EMS, BC, BW, and RV etc.)
Loadrunner 9.2 / 11
QTP 9.2 / 11
C and VBscript
Jconsole/ Jprofile

Technical Lead

2009 - 2010   NORTEL   IOT Team   Dallas US / Guangzhou CN

Project overview

NORTEL moved its IOT lab from US R&D to China. I was responsible for the transitioning and building a new lab and a team.

My contribution

Lead team located in different timezones work collaboratively.

Successfully delivered GSM/UTMS interfaces for AT&T and T-Mobile.

Initiated Network Vendors Interoperability Testing (NVIOT) NORTEL contribution part (LTE S5/S8 S11 Test Cases).

Technologies & Tools

R&S protocols, 3GPP R5 R6 R7 R8 Specifications

NORTEL BSC, RNC, MSC/VLR, HLR, SGSN, GGSN

DMS100, ATCA

NORTEL/AVAYA ERS8600

Passport 15000, 7000

Nethawk, Tektronix, Radcom protocol analyzers and Wireshark

My initiatives:

Created a PESQ software to measure call voice quality using PC sound card.

Technical Lead

2007 - 2008   NORTEL   Large Office Team   Dallas US / Guangzhou CN

Project overviews

NORTEL moved its large office lab from US R&D in China. I was responsible for the transitioning and building a new team.

My contribution

Built new team in to take over performance and load test.

Introduced & implemented new loadtest test tool (CATT) to the team.

Successfully delivered first large office project (1M BHCA in single ATCA shelf with 99.99% pass rate) on time.

Technologies & Tools

Advanced Telecom Computing Architecture (ATCA)

Linux

JAVA

MY initiatives:

I've created a protocol decoder tool using Visual C++ to decode NORTEL MSC C7TU Hex coded logs.

Technical Lead

2006 - 2006   NORTEL   WCDMA Trial Team   Chengdu, Jinan, Guangzhou CN

Project overview
WCDMA Trial was part of tendering process of wireless carriers(e.g. CMCC,CTC,CNC and CUTC) in China, All major telecom vendors participate and compete each others in the trial
My contribution
Lead 6 engineers in China Telecom (CTC) Guangzhou site. Lead 28 engineers in China NetCom (CNC) Chengdu site. Provide technical support in China United Network Communications (CUTC) Jinan site.
Successfully completed all planned test activities and got the highest score in CNC Trial.
Found product issues, organized R&D developer support and applied code changes in very short timeframe.
Technologies & Tools
Routing &Switching protocols, 3GPP R4 R5 Specifications
NORTEL BSC, RNC, MSC/VLR, HLR, SGSN, GGSN
NORTEL/AVAYA ERS8600, Passport 15000, 7000, Contivity VPN Switch
CISCO Router and Switches
Nethawk, Tektronix, Radcom protocol analyzers, Ethereal/Wireshark
Network Simulator (to simulate network latency, jitter, packet-loss, and packet-duplication)
Rohde&Schwarz spectrum analyzer and noise generator for HSDPA L1 test.
Qualcomm QXDM

Team Leader
2004 - 2005   NORTEL   Fast Feature Team
*   Guangzhou CN*
Project overview
Fast Feature team works on urgent requirements ourside of yearly main releases
my contribution
Lead software engineer team to work efficiently on urgent requirements.
Provide technical support to production implementation.
Successful delivered feature patches to key customers
Technologies & Tools
Mobile Switching Centre (MSC)
Home Location Register (HLR)
GSM Automation Platform (GAP)
C++

Software Engineer
2002 – 2004   NORTEL   GSM/UMTS Team
*   Guangzhou CN*
Project overview
GSM/UMTS Team works on main software releases of NORTEL 2G and 3G products.
My contribution
Worked on 2 main releases: NSS17 and NSS18.
Technologies & Tools
Intelligent network (IN) - CAMEL Phase2

C++

Educational Details

Bachelor Degree in Engineering,   1st Major Automation, 2nd Major E-commerce
   South China University of Technology, 2002

Certifications

AWS Certified Solutions Architect – Associate (AWS-ASA-8588)
Cisco Certified Network Professional (CCNP) (CSCO11752349)
MCSE MSDBA