**Nicholas Zhu**

**1/44 Buist Street，Bass Hill**

**N.S.W 2197**

**Mobile Phone: 0433274987**

Nichols.zu@gmail.com

**SOLUTION ARCHITECT / APPLICATION ARCHITECT**

**PROFILE:**

* ***Over 3 years as Application Architect and Solution Architect, working with stakeholders.***
* ***Over 5 years as Team Leader/Technical Leader. Always hands-on.***
* ***Experience in team build, management and team budget management.***
* ***AWS Solution Architect Certificate with more than 5 years experience on AWS.***
* ***Over 12 years of hands-on of experience developing enterprise applications across a range of domains, platforms and environments.***
* ***Strengths in modeling, design, architecture, implementation and optimization.***
* ***Expertise in Java, J2EE, Object Oriented Programming, SOA, Multi-Threads and Network program.***
* ***Salesforce Certificate.***
* ***Expertise in Jquery, Angular JS, ReactJS, VueJS.***
* ***Expertise in CQ5, AEM6***
* ***Expertise in NETSUITE.***
* ***Expertise in CI/CD environment design based on Bamboo.***
* ***Demonstrated ability in developing innovative and defining solutions.***
* ***Complete software life-cycle experience, from conception through beta-test, ship and maintenance.***
* ***experience with many industry standard methodologies including AGILE Unified Process(AUP), Test Driven Design (TDD) and SCRUM.***

**Education and Training**

**Education and Skill Enhancements**

* University of Zhejiang, Master of Geographic Information System, 2004
* University of Zhejiang, Bencher of Civil Engineer, 2001
* Cisco, Cisco Certified of Network Assistant – CCNA, 2001
* Oracle, Oracle Database 10g Administrator Certified Associate – OCA, 2008
* Oracle, Oracle Database 10g Administrator Certified Professional – OCP, 2008
* Salesforce Administrator 201, 2014
* Coursera - Functional Programming Principles in Scala, 2016
* Coursera - Functional Program Design in Scala, 2016
* Coursera - Parallel programming, 2016
* AWS Certified Solutions Architect - Associate, 2019
* TOGAF 9.2 Certificate, 2019

**My Open Source Project**

* Micro-Service development framework - <https://github.com/igloooooo/spring-cloud-shadowavator>

This is an extension of spring cloud framework to support Micro-Service development and testing locally.

* ESAdapter - https://github.com/igloooooo/esadapter

This is an example to show how to integration CQ5 with Elasticsearch.

* Full text searching integraton framework - https://github.com/igloooooo/Plagueheart

This is an example to show how to provide full text searching engine for web application.

* AEM phonegap POC for Telstra Media Home - https://github.com/igloooooo/Sanctification

This is an example to show how to create mobile app via AEM.

**Technical Skill**

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| **Catalog** | **Skills** |
| Programming Language | JKD6, JDK7, JDK8, Scala, C/C++, C#, Visual C++, Perl, ActionScript 3, SQL, PL/SQL, SCALA |
| Solution Design | TOGAF 9.2, PlantUML, SDLC, UML |
| Database | Oracle, MySql, SQL Server (MSSQL), eXist Database, MongoDB, BigTable, ElasticSearch |
| CRM | CQ5/AEM, AEM6.1, Salesforce, CRXDe, Sling |
| Mobile Apps | Phonegap, Pushwoosh, Cordova, Ionic |
| Ecomerce | Hybris, OCC API |
| Java Framework | Spring, Spring MVC, Spring Boot, Spring Cloud, JSF, Hibernate, Apache MQ, CXF |
| Big Data Framework | Spark, Hadoop, ElasticSearch, |
| AWS platform | EC2, CloudWatch, Lambada Function, API gateway, Kibana, Kinesis, |
| Google Application Framework | GAE(Google Application Engine), GWT, GIN, GUICE, Google API, Google Data Store |
| IDE | Eclipse, intellij, MyEclipse, JBoss Tools, JDeveloper, OperaMasks Studio, MS Visual Studio, FlashBuilder |
| Application Server Platform | Oracle WebLogic Server, IBM WebSphere, Tomcat6.0, OC4J, JBoss, Apusic Server, Apache |
| Open Resource Framework | Spring security, FireFlow, JMS, JNDI, Maven, Ivy, iText, PDFlib, XFire, JAX-WS, Axis, Birt Report, JOSSO, JavaMail, AspectJ, Memcached, Freemarker, Apache MQ, Camel, Bonita, BPMN |
| Operate System | Windows server 2000, Windows server XP, Linux, RedHat |
| UI Skill | ReactJS, AngularJs, Gxt, JSP, Html, CSS, XML, XSLT, XSD, SOAP, AJAX, JavaScript, EXTJS, JQuery, Bootstrap 3 |
| CI | Hudson, Bamboo, Maven2, Maven3, Ant, CC.Net, Build script, Nexus, Artifactory, Bamboo, GIT, GIT flow, Docker, Ansible |
| Unit Test | JUnit, Spring Test Framework |
| The others | EA(Enterprise Architect), Visual SVN, CVS, SDLC, UML, Dot project, JIRA, Confluence |
| Special Area | Digital Media, Prepay Card, Telecom billing, Telecom OSS, Mobile payment, Value-added service, SMS, WAP, E-Business service, CRM, GIS |

**Work Experience**

**Organisation: TAFE NSW.**

**Date: Feb 2018 - Now**

**Role: Solution Architect / Application Architect**

Working as a Solutions Architect in IT Delivery team for the TFAE NSW, I am responsible for delivering architecture guidelines for web and digital deliveries, designing new and innovative solutions to challenges in company and provide support and results in following areas:.

Job Description:

1. Provide solution and integration development using MuleSoft including requirements, functional specs, design, custom development, integration, unit test, and deployment.
2. Leading multiple technical teams, gather and analyse requirements and provide technical advice and best practices with respect to integration development and implementation based on TAFE ICT principles.
3. Build best practices development , methodology, guidelines and high quality code control during development process cross all TAFE development team. And providing the framework for collaboration of multiple in-house and vendor development teams
4. Ownership for growing expertise within team across Business System Analysts, Technical Architects and Management Services to deliver value to our stakeholders
5. Research possible solutions for solving a customer's business problems, perform an analysis of alternatives and lead the recommendation to a solution
6. Create solution architecture documentation throughout the project lifecycle of the solutions, ensure solution fit with the current and planned enterprise architecture and standards
7. Assist to estimate and build the develop team budget, manager team members and budgets during entire SDLC.

Achievement:

1. Designed and implemented IDM (Identity Management System), which based on OIM (Oracle Identity Management) to support TAFE SMS project.
2. Designed and implemented API interface based expose IDM service for other TAFE application, which based on Mulesoft ESB and Spring Cloud.
3. Designed the integration solution for OTEN, which is TAFE online education system, to TAFE SMS project.
4. Designed the integration solution for SRMS(safety and risk management system), with vender company, which is Protecht.ERP.
5. Designed and implemented SSO solution between TCS(TAFE Card System) and PingFederate, which is TAFE IDP.
6. Designed and implemented CI/CD process for IDM project based on bitbucket, bamboo and docker EE.
7. Assist to design and implemented dockerize solution based on the docker EE.
8. Assist to design and implemented TAFE Elasticsearch solution
9. Assist to design and implemented TAFE EBS SSO solution

Technology:

Java 8, Oracle IDM, Mulesoft ESB, Oracle, Spring Cloud, Spring Boot, Spring Integration, ElasticSearch, Spring, Vue.js, bootstrap3, Bamboo, JIRA, Docker EE, Spring boot, nodejs, GIT, Ansible,

**Organisation: Telstra.**

**Date: Jun, 2017 – Feb, 2018**

**Role: Application Architect**

1. **Telstra Media**

Reviewing all new pieces of work (Usually medium to large pieces) to give guidance and

come up with a solution for implementation

Job Description:

a. Developing POC (proof of concepts) for new pieces of work to ensure the solution is feasible before going into development

b. Reviewing code to ensure optimum performance and stability of all products. Ensuring good code practice

c. Conduit between the platform and application teams. Review solutions/proposals put forward by the platform team to ensure they are fit for purpose and contribute to platform decisions.

d. Triage for any environmental issues that are raised and assumed as platform issues before assigning to platform team.

e. Support any production issues that require a deep dive into route course and give guidance on a strategic solution

f. Support the application development team with any environmental blockers

g. Across Adobe roadmap so that any future strategic decisions can be made with that in mind

Technology:

Java 8, AEM6.2, AEM6.3, Sightly, AWS, EC2, S3, ReactJS, ApiGee, Sling, OSGI, Ajax, Jquery, JSON, Gulp.js, Maven 3, Intellij, JIRA, Bamboo, Confluence, GIT.

1. **Mobile Apps for Telstra Media Home (POC)**

Prepare the POC for Telstra Media Home Page. Here is the link in github:

https://github.com/igloooooo/Sanctification

**Achievements:**

a. Mobile Apps build via AEM phonegap.

b. Google analysis integration.

d. Google Mobile Ads integration.

e. Notification integration.

f. Building for both Android and IOS.

g. Feeds integration with Elasticsearch

h. API gateway build via Node.js

**Technology:**

Java 8, AEM6.2, Ionic1, Pushwoosh, Cordova, Phonegap, AngulaJs, node.js, Elasticsearch, Moleculer,

**Organization: ASX.**

**Date: July, 2015 - Jun, 2017**

**Role: Technical Leader**

1. **MyASX**

MyASX is the portal of ASX personal customer, which focus on the watchlist and portfolio management. It will present the latest ASX security price and trend for the user.

**Responsibilities**:

a. Provide the technical integration solution for MyASX project.

b. Code review and the code quality management.

c. Trouble shooting and performance optimise.

d. Task technical split and assign.

e. Development environment build .

f. CI environment build and release process management.

g. Integration with ASX infrastructure and DBA team.

h. Coding and system configuration

i. Build AEM componenet.

**Achievements:**

a. Supporting high traffic website.

b. Tune performance of watchlist and portfolio.

d. Refactor the currently website and functionality.

e. Running project via Agile.

**Technology:**

Java 8, AEM6.1, Sightly, Spring, hibernate, Spring security, Sling, OSGI, Ajax, Jquery, JSON, Grunt.js, Handlebar JS, JBOSS, LDAP, Maven 3, Intellij, JIRA, Bamboo, Confluence.

1. **Customer Portal**

Customer Portal is the brand new ASX customer portal and it will integrate with currently ASX data base, SalesForce and the other currently ASX web application.

**Responsibilities:**

a. Supporting three vending companies of ASX.

b. Provide the technical integration solution for customer portal project.

c. Code review and the code quality management.

d. Trouble shooting and performance optimise.

e. Task technical split and assign.

f. Integration with ASX infrastructure and DBA team.

g. Requirement and functionality analysis with BA.

h. Coding and system configuration.

i. Build AEM component.

**Achievements:**

a. Data migration with old system, including document and digital assets.

b. Build the system from scratch.

c. CI environment build and release process management.

d. Integration with SalesForce.

e. AEM knowledge sharing with the team.

f. Full text searching via Lucene.

g. Running project via Agile.

h. Integration with LDAP and F5 via SAML.

**Technology:**

Java 8, AEM6.1, Sightly, Spring, hibernate, Spring security, Sling, OSGI, JMS, JAXB, IDP, F5, Ajax,Jquery, JSON, Grunt.js, Handlebar JS, Lucene, JBOSS, LDAP, F5, SalesForce, Maven 3, Intellij, JIRA, Bamboo, Confluence.

**Organization: Telstra.**

**Date: Jan, 2015 - Jun, 2015**

**Role: Senior CQ Specialist**

1. **Loyalty Website**

Thanks website is part of telstra.com website and focus on the rewards for Telstra's customer. It has been built by Adobe AEM 5.6.1 and go live in Match, 2015.

**Responsibilities:**

a. Front-end development.

b. Build CQ5 component.

**Achievements:**

a. Responsive website.

b. AEM5.6.1 content manage system

c. OSGI bundle develop and maintain

d. Backbone javascript framework integration.

e. Integration with Telstra API layer.

**Technology:**

Java 7, CQ5/AEM, Sling, OSGI, Ajax, Jquery, JSON, backbone.js, handlebar.js Maven 3, Bamboo, Intellij, JIRA, Confluence.

1. **Helix Project**

Helix project is a POC project for integrate Telstra online shop website with Hybris 5.6. The new Telstra online shop website will be driven by Hybris data and the UI will implemented by AEM 5.6.1. It will provide the genera solution for all online sell website in the Telstra.

**Responsibilities:**

a. Front-end development.

b. OSGI bundle develop and maintain.

c. Build CQ5 component.

**Achievements:**

a. Responsive website.

b. AEM5.6.1 ecommerce component

c. AngularJS framework integration.

d. Telstra data model creation by Hybris 5.6.

e. Integration with Hybris restful API (OCC).

f. Product data integration between Hybris and AEM5.6.

g. Front-end framework based on the Angular JS.

h. Front-end code build based on the Grunt.js and Bower.js

**Technology:**

Java 7, CQ5/AEM, Hybris 5.6, Sling, OSGI, Ajax, JQuery, Angular JS, Servlet, JCR Repository, JSON, Javascript, Jquery, Grunt.js, Bower.js, XML, Maven 3, Ant, Bamboo, JUNIT, IntelliJ, JIRA, Confluence

**Organization: FairFax Media.**

**Date: April, 2012 - Dec, 2014**

**Role: Senior Web Developer**

**Fairfax Media Limited is one of Australia's largest diversified media companies. The group's operations include newspapers, magazines, radio and digital media operating in Australia and New Zealand.**

**Project:**

1. **MashHead Project Maintain**

MashHead Project includes most of the important websites in the FairFax Media (FFX), such as Sydney Morning Herald (SMH).

**Responsibilities:**

* 1. Website maintains.
  2. Front-end development.
  3. Support project manager.

**Achievements:**

1. Current project maintain.
2. Database update by DBKing.
3. DCDS system usage.
4. Host website based on Spring, SQL Server.
5. Website hot fix and deployment.
6. Website performance test by JMeter

**Technology:**

Java 7, Spring, Hibernate 3, JPA, Web Service, Ajax, JSTL, Servlet, JQuery, JMeter, JSON, CSS, XML, Maven 2, Ant, Bamboo, SQL Server, JUNIT, IntelliJ, JIRA, Confluence

1. **Finance Review Website Redesign**

Redesign the Finance Review website (AFR) based on the CQ5. The whole website is responsive website and supported by full test search.

**Responsibilities:**

* 1. Front-end development.
  2. Back-end development and integration.
  3. Build CQ5 component.
  4. CQ5 administrator.

**Achievements:**

1. Responsive website.
2. Multi-device Adaptor.
3. CQ5 content manage system
4. Full text search by ElasticSearch.
5. Data migration from Methode to CQ5.
6. SEO implement.
7. Selenium test and Unit test.

**Technology:**

Java 7, CQ5/AEM, Spring, ElasticSearch, Sling, OSGI, Ajax, JQuery, Servlet, Multi-Thread, JMeter, JCR Repository, SEO, Selenium Test, JSON, Javascript, Jquery, Bootstrap 3, CSS, XML, Maven 3, Ant, Bamboo, JJUNIT, IntelliJ, JIRA, Confluence

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**Organization: PricewaterhouseCoopers**

**Date: Feb, 2010 – April, 2012**

**Role: Senior Developer**

**Project:**

1. **ClientStream**

ClientStream is a internal CRM system. The different between ClientStream and normal CRM system is ClientStream is focusing on finding the new opportunity in the client relationship network. It has been using by global PWC branch, such as Japan and Russia.

Achievements:

1. Architecture, devising and prototyping solutions.
2. Social network model design.
3. UI design and developer based on FLEX 3.
4. SOA design and implement by web-based applications.
5. WebService developed by Java.
6. MS SQL and Store procedure design.
7. UI test based on Flex component and Unit test with JUnit and FlexUnit..
8. Continue Integration(CI) with Hudson, TFS and Ant script.
9. Auto-compile Flex and Java code.

Technology:

JAVA, Spring framework, Hibernate, FLEX3, MS SQL, JBOSS, Hudson, TFS, Ant, Web Serivce, JUnit 3, FlexUnit, JDDI, XML, XSD

**Commitment Involvement**

Member of the following: CCNA; OCA; OCP

**Interests and Hobbies**

**Basketball, Reading, Travelling and computer game**