JIAYAN GUO

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SUMMARY:

- **7+** years **software design**, **implementation**, **testing and deployment** experience, full-stack Engineer
- Excellent programming skills and experience in **Java**, **NodeJs, NoSQL, SQL**, **AWS and Docker**.
- Team player with excellent **communicational** and **interpersonal** skills.
- Familiar with DevOps Culture.

CERTIFICATION:

ROCKSTAR of Charter Spectrum ONEAPP PROGRAM

AWS Certified Developer – Associate / **AWS Certified Architect – Associate & Professional**

AWS Certified SysOps – Associate / **AWS Certified DevOps – Professional**

Nominated as one **of top developers** in Charter SE Group.

TECHNICAL SKILLS:

Web Application Skills:	Java8, NodeJs, Groovy, Kotlin, Python, Spring, Micro services, AWS, Kubernetes, JavaScript, JQuery, Angular JS, React, Kafka, Docker, JMS, Junit4, Shell script
Application Server:	Apache Tomcat 7.0/8.0, Jetty, Netty
Databases:	Cassandra, MongoDB, MySQL5, Oracle DB, Redis
Project Tools:	Maven, Gradle, npm, Git, JIRA, Nexus, Jenkin, pip

PROFESSIONAL EXPERIENCE:

Employer: Oracle   **Mar. 2020 – Till Date**
Role: Sr. Software Engineer
Project Description:
Build Oracle Cloud Virtual network Control Plane Service, such as VCN, Subnet, VNIC, and etc.
Responsibilities:

- Design and Deliver Private DNS Project, help customer build their Private DNS on Oracle Cloud.
- Automated Region bootstrap process in Network Control Plane area, which help Oracle rapidly build a new region in the world.
- Write Integration test and Unit to improve code quality.
- Customer support and continue improving existing Operations
- Frontend and backend change to deliver a new feature
- Develop tools using docker for helping local test.
- Mentor Summer intern and new team member.
- Tech Lead on L2 team, mainly focus on DNS area.

Tech Stack:
Java8, Docker, SQL, Guava, Guice, Protobuf, Terraform, React, Dropwizard, and Internal tools.

Employer: Charter Communications   t   **Feb. 2018 – Mar. 2020**
Role: Sr. Software Engineer
Project Description:
Spectrum TV is one of the most important products of Charter Communicates. Spectrum currently serves 26 million US customers. I am responsible for the middle tier services. Like user entitlements, user login, EPG

data, and image data. I involved in several important projects, like Spectrum On Apple TV, Containerization, CCPA, Sports Enhancement and so forth.

Responsibilities:

- Develop a new CCPA compliant service using Spring Boot, Kafka, and OkClient.
- Design and develop image server V2 with Redis cache.
- Design and develop real-time sport service using AWS lambda, API gateway, router 53 and Serverless Framework.
- Develop a tool to generate team vs team images using Python and Java.
- Containerize services and deploy them to Kubernetes cluster using CI/CD pipeline.
- Maintain L-Charter microservices and XMP platform which provides metadata for Spectrum TV.
- Technical software workflow design, and find the right solution.
- Write Unit and Integration tests, and generate test coverage report using Jacoco and Sonar
- Monitor and alter services issues using Splunk
- Consolidate L-Charter and L-TWC services, combine duplicated services to one.
- Represent SE Group to route Spectrum defects to the right teams.
- Improve software quality, performance, resolve tech debts.
- Reduce customer facing issues.

Tech Stack:

Java 1.8, Groovy, Angular JS, Spring, Hystrix, Jersey, Nexus, Jenkin, Kubernetes, Docker, Mongo, Cassandra, AWS, Splunk, Microservices, Node JS, Kafka, Redis

Client: Charter Communications   **Dec. 2015 –Feb. 2018**

Employer: Marlabs

Role: Contractor Software Engineer

Responsibilities:

- Develop ONEAPP Adaptor service using node JS and Hapi Framework, and deploy it to Kubernetes Cluster through CI/CD pipeline.
- Develop StartOver UI login and Role based management functions using Angular JS and JWT token for authentication.
- Containerize Mircroservice using Docker and Kubernetes, to make it cloud agnostic.
- Maintain L-Charter microservices and XMP platform which provides metadata for Spectrum TV
- Technical software workflow design, and find the right solution.
- Write Unit and Integration tests, and generate test coverage report using Jacoco and Sonar
- Improve software quality, performance, resolve tech debts.
- Reduce customer facing issue.

Tech Stack:

Java 1.8, Groovy, Angular JS, Spring, Hystrix, Jersey, Nexus, Jenkin, Kubernetes, Docker, Mongo, Cassandra, AWS, Splunk, Microservices, Node JS

Client: Comcast   **Jun. 2015 –Nov. 2015**

Employer: Marlabs

Role: Contractor Java Developer

Project Description:

It is a Comcast project for internal usage, the general users including customer representatives and agents. The purpose of the project is helping agents to process customers' complaint and requests, thus, to improve the whole company customer service quality.

Responsibilities:

- Use **RestEasy and Spring Framework** to develop **Rest web service**.
- Use **JMS** to develop java message driven module, such as email message services.
- Use **Spring Timer** to manage scheduled jobs and asynchronized jobs.
- Use **jndi** to manage database connection, include **Mysql** and **oracle database**.
- Develop demo UI page by using **JQuery, JavaScript, html,** and **Ajax**.
- Use **git** to manage source code, such as **merge**, **commit** and **push**.
- Use **groovy script** to process some specific logics which can simplify develop work.
- Use **postman** and **rest client** to call rest web services.
- Use **log4j** to log server execute logs, which it's helpful when trouble shooting bugs.
- Use **java mail** to process complaint emails from customer and send notification emails to related departments.
- Use **JdbcTemplate** to process database **CRUD** operations.
- Consume external **SOAP web service** by using spring framework.
- Write **Unit test** by using Spring and Junit.
- Use **PHP** as a front end client to consume rest web services**.**
- Use **maven** to manage project dependencies and build project.

Tech Stack:

Java 1.8, Groovy, Spring4.0 Framework, RestEasy Framework, JQuery, JavaScript, AJAX, Log4j, XML, JSON, SOAP, WSDL, Oracle Database 11g, MySQL, JavaMail, JNDI, Git, JUnit4, WildFly, Rally, Eclipse Luna, Maven3.0, SQL Developer, MySQL Workbench, Windows 7.

Marlabs Inc.   **Oct. 2014 – Jun. 2015**

Role: Programmer

- **Core Java training**. Developed a **library management system**.
- **Java EE training**, include Spring, Hibernate, Struts2, servlet, EJB, html, css, javascript, AngularJs..

New York Air Brake,   **Nov. 2013 – Jul. 2014**

Role: Software Developer (Volunteer)

- Use parasoft to write **unit test** for an embedded System (LEADER-EM), cooperate with senior developers to improve test coverage.
- Study difference between **CppUnit** and **CppTest**, then developed a tool which can automatically convert test cases generated by **Parasoft** to **CppUnit** test cases.

EDUCATION:

The University of Texas at Arlington, Arlington, TX, Aug. 2013 – Aug. 2014
    Master (The second year): **Software Engineering**   **GPA: 3.7**

Beijing University of Posts and Telecommunications, China, Aug. 2012 – Jun.2013
    Master (The first year): **Software Engineering**

Hubei University of Technology, Hubei, China, Aug. 2008 – Jun. 2012
    Bachelor: **Electronic Information Science and Technology**