VISA STATUS: VISA   OPT

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SUMMARY:

- Professional experience as a **Full Stack Java Developer** in designing, implementing, deploying and testing **Web Applications** and **Microservice** using **Java Platform** and **Spring Ecosystem** in various domains such as **Banking & Finance system, Delivery system, E-commerce system,** and **Healthcare software**.
- Solid knowledge of **Core Java** concepts like **OOP, Multi-Threading programming, Annotations, Concurrent Framework, I/O System,** and **Exception Handling** along with **Java 8** new features like **Functional Interface, Lambda Expressions,** and **Stream API** and other versions like **Java 10**, **Java 11** and **Java 17**.
- Deep understanding of **Data Structure** such as collection, map, stack, tree, graph and **Algorithms** like Binary Search, Divide and Conquer, DFS/BFS, Greedy Algorithm, Dynamic Programming.
- Expertise in web-based application using **Java EE** technologies such as **JSP 2.0, JSTL 1.2**, **Servlet 4.0** and **JDBC 4.3**.
- Extensive experience and knowledge in designing and developing enterprise level applications and Microservices architecture using Spring Ecosystem like **Spring Core 5.x**, **Spring MVC 5.x**, **Spring Boot 2.x**, **Spring JPA**, **Spring Security 5.x**, **Spring AOP**, **Spring ORM**, **Spring Streams** and **Spring Cloud**.
- Proficient understanding of using **Spring Cloud 2.x** for Microservices deployment and Auto configurations like **Netflix Eureka, Ribbon, Hystrix** and **Zuul.**
- Good understanding in **Spring Security 5.x** with **OAuth 2.x, SAML 3.x**, **JWT** and **Single Sign-On** for authentication, authorization and user management**.**
- Good knowledge in **Socket programming** about HTTP/TCP protocols, serialization, BIO/NIO models etc. with the experience in using **Netty 4** framework to simulate the communication between server sides and client sides.
- Good understanding about the idea and usage of **RPC frameworks** and have working experience in using **Dubbo 3.0** to achieve service and API registry in large systems.
- Strong experience in designing and handling **REST APIs** in Web Services using different languages like **Java**, **GoLang** and **Python**.
- Hands-on Experienced in **Object Relational Mapping** (**ORM**) using **Hibernate 5**, **Mybatis 3** and **Spring Data JPA** frameworks.
- Highly-skilled in **Relational Database** management and procedure writing in **MySQL 8.x, SQLite 3** and **Oracle 12c**.
- Strong knowledge and hands-on experience of **NoSQL Database** like **MongoDB 4.x**, **Redis 5.x** and **Amazon DynamoDB**.
- Solid knowledge in using Message Brokers for Microservices notifications such as **RocketMQ 4.9, Pivotal RabbitMQ 3, ActiveMQ 5** and **Apache Kafka 2.x** to create topics, producers and consumers and achieve synchronous and asynchronous messages.
- Profound experience in **Amazon Web Services** such as **EC2**, **S3**, **Relational Database Services (RDS)**, **DynamoDB, Elastic Load Balancers** and **AWS Lambda Expression** and **Google Cloud Platform** like **Google Cloud Storage (GCS)** and **Elasticsearch Cluster**.
- Developed UI web applications using **HTML 5**, **CSS 3**, **JavaScript 2**, **jQuery, AJAX** and utilizing frameworks like **React 16**, **Angular 9** and **Bootstrap 3**.
- Experienced on **CI/CD** practices and tools like **Git 2** for environment and version management, and **Docker** for deployment.

- Hands-on experience in using build tools like **Apache Maven 2/3** for managing projects' build, reporting and documentation.
- Strong understanding in **Test Driven Development** with unit testing by **Junit 5** and **Mockito 2**, automated testing by **Java Selenium 3,** defect tracking with **JIRA 4** and API testing using **Postman**.
- Experienced in Software Development Life Cycle (**SDLC**) methodology, including **WaterFall** and **Agile Scrum**.
- Good knowledge in **Machine Learning** and **Deep Learning** with abundant experience in using **Python (Numpy, Pandas, Tensorflow, PyTorch, Jupyter Notebook)** to train models.
- Good knowledge in using **GoLang** to develop web applications by handling **REST APIs** and combining with other technologies like **MQ** and **ElasticSearch**.

TECHNICAL SKILLS:

Programming Languages	**Database**
Java 8/10/11/17, JavaScript ES5/ES6, SQL12	MySQL 8, Oracle 12c, MongoDB 4
Python 3, GoLang 1.19, Kotlin 1.4	SQLite 3, Redis 5, Amazon DynamoDB
ORM Frameworks	**J2EE Technologies**
Mybatis 3, Hibernate 4	JSP 2, Servlet 3, JDBC 4, JPA 2, JMS 2
UI/Web Technologies	**Spring Ecosystem**
HTML 5, CSS3, jQuery 3, Bootstrap 3	Spring 4/5, Spring MVC 4/5, Spring Boot 2
JSON, XML, Node.js, Redux	Spring Cloud, Spring Cloud Streams, Spring JPA
React 16, Angular 8	Spring Security 5
Spring Cloud	**Spring Security**
Netflix Eureka 1.9, Ribbon 2.2, Zuul 2.1	OAuth2, JWT 3, SAML 3
Hystrix 1.5, Spring Cloud Stream	Single Sign-On
Web/App Server	**Cloud Technologies**
Tomcat 8/9, Apache HTTP Server 2	EC2, S3, ELB, RDS, GCP, GCS
Message Services	**Other Middleware**
ActiveMQ 5, RabbitMQ 3, RocketMQ 4	Zookeeper 3, Netty 4, Dubbo 3
Kafka 2	ElasticSearch 8
Design Pattern	**Development IDEs**
Factory, Singleton, DAO, MVC	Eclipse 4, IntelliJ IDEA, VS Code, Android Studio
Worker Thread, Producer – Consumer	PyCharm, GoLand
Version Control Tools	**Testing Tools**
Docker, Maven 2/3, Gradle 5, Git 2	JUnit 4/5, Mockito 2, JMeter 5, Postman
Jenkins 2	Java Selenium 3, JIRA 4
Operation System	**Other Methodologies**
Windows 10, Linux (CentOS 7)	Agile Scrum, OOD, Android Development

PROFESSIONAL EXPERIENCE:

Ever Bank   **Los Angeles, CA**
Project: Customer Relationship Management Web Application Upgrading
Role: Java Full Stack Developer   **Dec 2022 - Till Date**
Description:
Ever Bank is a financial services organization which provides banking, mortgages, and investment throughout the United States. My project is to develop and upgrade the Customer Relationship Management web application of Ever Bank. With the CRM system, it hopes to track the customers' requirements, make in time follow-ups and improve customers' satisfaction. What we did is adding and upgrading several modules, such as Forecasting, Tracking, Predictive Dialer and etc. Our team was responsible for dividing the whole project into several microservices based on the function and implemented them. We also improved the efficiency, availability, scalability and failure tolerance of this management system.

Responsibilities:
- Implemented Microservices architecture using **Spring Boot, Spring Cloud, Spring Security, Angular** and deployed it to **AWS**.
- Configured **Single Sign On** to provide authentication, authorization and access-control features for Application with **Spring Security SAML**.
- Deployed **Eureka Server** for microservice registration and added **Ribbon** to realize client-side load-balancing.
- Worked with **Netflix Zuul API** gateway for Routing and **Hystrix** for fault tolerance.
- Implemented a distributed tracing solution using **Spring Cloud Sleuth** and **Zipkin** to monitor the API interface and connect with relational database.
- Used **MySQL** database as system of records combined with **Hibernate** to do ORM operations and used **Redis** behind the data access layer to store the hot data users engaged with as a layer of cache.
- Used **Kafka** as messaging service and data transmission for asynchronous inter-service communication between the **Microservices**.
- Involved in building single page applications using **Angular 9** framework along with **HTML5, CSS3** and **JavaScript**.
- Deployed the microservices by using **Docker** container.
- Developed unit testing using **JUnit** with **Mockito** under **Test-Driven Development (TDD)** environment.

Environment:
Java 11, Spring 5, Spring Boot 2.3.1, Spring Cloud Netflix 2.2.4, Spring Security 5.2.1, SAML, Hibernate 5.2, MySQL 8.0, Angular 9, HTML5, Bootstrap 4.3, CSS 3, Kafka 2.7.0, JUnit 5, Mockito 2.25, Maven 3.6.3, Tomcat 9.0, Git, Docker, AWS

Project: Tufastly   **Los Angeles, CA**
Role: Java Full Stack Developer   **Jan 2022 – Nov 2022**

Description:
Tufastly is an optimal delivery & dispatch management system. It provides the pick-up and delivery service with unmanned vehicles or drones in Los Angeles Areas. It partitions different functions for users and admins. For users, they can create a delivery order, make payment and track the pick-up or delivery status. For admin, they can see all orders, make statistics and update order status. One key point in this project is a routine optimization algorithm in the backend which could calculate an optimal delivery routine for a batch of orders, which saves the resource and cost.

Responsibilities:
- Made surveys to gather information like the map, the policy for drones and unmanned vehicles and customers' requirements and designed the produce scope and system architecture.
- Developed a web application to **AWS EC2** platform based on **Spring MVC**.
- Designed the system databases based on **MySQL** and deployed it to **AWS RDS** for better control and management.
- Designed and implemented its persistence interfaces and implemented with **Spring Data JPA** and **Hibernate** to perform **CRUD** operations.
- Utilized **Spring Security** to achieve user register/login and worked with **OAuth 2** framework for authorization of different roles and partitions users and admins to different pages.
- Extensively used core Java concepts like **Multithreading**, **Asynchronous operations** and **User-defined Exception handling** to improve the efficiency, consistency and availability of the system.
- Designed and developed various **RESTful APIs** like create orders, make payments, view home pages and update information.
- Used **Google Map API** as the source of the map and location information in our project.
- Designed a routine optimization algorithm based on **the shortest path algorithm** in the backend to save the delivery sources and cost.
- Used a Realtor API to validate the effect of the algorithm.
- Integrated **PayPal Sandbox API** to simulate real payment environment.
- Designed and implemented a messaging system to deliver messages like the order status, payment and delivery using **Apache Kafka**.
- Built the user and admin pages using **React 16** framework.
- Used **Maven** for dependency management, **Junit** for unit test, **Postman** for API validation and **JIRA** for bug reporting.

- Used **Docker** to build the project for deployment.
- Configured **AWS Route** for DNS service, **AWS ELB** to handle load balancing and **AWS S3** to manage stored files.
- Worked closely with other team members and used **Git** for better version control and unified property files.
- Worked as the **Agile Scrum** pattern of the Software Development Life Cycle and participates in requirement analysis, designing, coding, and testing.
- Used **Git** for version control and **JIRA** for bug reporting.

Environment:
Java 8, Maven 3.5.4, Spring 5, Spring MVC, Spring Data JPA, Hibernate 4, MySQL 8, OAuth2.0, Junit 4, Kafka 2.7.0, AWS EC2, S3, Route V4, ELB, Docker, Git, HTML5, CSS3, React 16, Tomcat 9.0, JIRA 4, JUnit 4

Alibaba Corporate – CTO line   **Hangzhou, China**
Project: Kaola System Developing and Upgrading
Role: Java Backend Developer   **Sep 2020 – Aug 2021**

Description:
Alibaba is one of the biggest E-commerce and Technology company in China and throughout the world. It provides the e-commerce platform just like Amazon store and could handle billions-level concurrency during a promotion. Kaola platform is also an e-commerce system which aims at selling import goods. My project was focus on developing and upgrading one part of the Kaola system, that is an image generation system called Van Gogh. In specific, I needed to create new functions and features to support the coming big promotion and new activities. I also needed to discuss with my colleague on the operation side and front-side to agree on the pattern and features of the system.

Responsibilities:
- Worked with colleagues in the front-end and operation side and discussed about the new features and samples generated by the system.
- Upgraded the picture generating system using **Java**, **Spring Core** and **Spring Boot**.
- Implemented new functions strictly based on **Interface Oriented Programming** and code norms to improve the scalability and reusability of the code.
- Implemented the RPC framework **Dubbo** to achieve the service and interface registry and maintenance so that different projects can be communicated and invoked by each other.
- Used **RocketMQ** as a message system to transform the messages like data retrieval, picture done and communication between different projects.
- Used **Kafka** to record the log information to help track and debug.
- Used **Redis** between the front side and the data access layer as a cache for quicker response time.
- Used **MySQL** as the database of the whole system and used **Mybatis** as the ORM framework.
- Supported the frontend side and built a project supporting the picture shows in the frontend using **Multithread Programing** and **Asynchronous operations**.
- Worked with **JUnit** and **Mockito** unit test framework to write unit tests and test the basic function and used **JMeter** to test the performance.
- Used **Maven** as a build to build the project and manage the version of used tools and used **Git** to manage the version control and cooperate with other colleagues.
- Helped upgrade the dependency of the whole teams' project and used **Maven Helper** to exclude the dependency when conflicted.

Environment:
Java 8, Maven 3.5.4, Spring 5, Spring Boot 2, MySQL 8, Mybatis 3, Dubbo 3, RocketMQ 4, Kafka 2, Redis 5, JUnit 5, Mockito 2.25, JMeter 5, Git

PricewaterhouseCoopers Consulting   **Shanghai, China**
Project: Merge company system with a laboratory system
Role: Java Full Stack Developer   **Sep 2019 – June 2020**

Description:
PricewaterhouseCoopers (Pwc) is a worldwide accounting and consulting company. Its consulting department provides other company with advanced finance, accounting, management and IT solutions. I worked in an IT

consulting group and participated in a project about a company purchased a factory. What we did was to provide the company with a new system which combines both the original company management system and the factory system. I participated in making the IT solution, designing the system as well as developing it.

Responsibilities:
- Developed the system with **Spring Boot** framework applications and implemented **MVC Architecture** in the backend for better module management and scalability.
- Implemented **REST API** to access the service of the system.
- Used **Mybatis** to achieve CRUD operations in the backend and connected the system with **MySQL** database.
- Implemented security features using **Spring Security SAML**.
- Developed message service for interaction between modules by using **ActiveMQ**.
- Implemented client operation UI pages using **JSP**, **HTML**, **CSS** as well as **Bootstrap** libraries.
- Developed test cases and performed unit test using **JUnit** Framework in a **Test Driven Development** (TDD) approach.
- Worked on **CI/CD** process for automated delivery and wrote deployment scripts for building jobs in **Jenkins** and **Git** for source control.

Environment:
Java 8, Spring Boot 2, Spring MVC, Spring Security 5, ActiveMQ 5, Mybatis 3, MySQL 8, JSP 2.3, HTML5, JavaScript 5, CSS 3, Bootstrap 4, Tomcat 8.0, Maven, Jenkins 2, Docker, Git

Philips Investment Research and Development Center   Shanghai, China
Project: Healthcare Direct Report System Developing and Maintaining
Role: Java Full Stack Developer   Oct 2017 – Jun 2019

Description:
Philips is a world lead company who provides with advanced lighting equipment, home appliances and healthcare systems. The R&D center of Philips aims at developing healthcare software as well as the auxiliary system with the physical device like a toothbrush. My project was developing a medical direct report based on Chinese unified standards, which can be compatible with any other Chinese class A hospital. I was mainly responsible for the function like the report display, database design and statistics support. Besides, I also needed to do lots of unit test to make sure the display and the structure of the report was compliance with the standards.

Responsibilities:
- Participated in **Agile Scrum** development of SDLC to develop the software as well as did unit test, back test, integration test and automated test in each sprint.
- Developed the software in **Core Java** with **Servlet** to handle the request from the frontend and **JSP** as the display of UI.
- Extensively used advanced data structures like **Collections, User Defined Class, Enum** to simulate the complicated report structure and map them to **JSON** format for transformation.
- Created **POJO** for each entity, and designed consistent **MySQL** database tables, considering the difficult map relationships: one-to-many, many-to-one, etc.
- Used **JDBC** to perform **CRUD** operations easily by java commands.
- Designed Frontend pages using **JSP,** bound the data and view models and displayed the data in user-friendly pages.
- Improved the overall front-end layout and details by using **CSS patterns** to fit the direct report style and maintained **CSS libraries** for further improvement and usage.
- Worked with **JUnit** and **Mockito** unit test framework to do function and unit tests as well as acted on the page to see whether the display is correct.
- Used **Java Selenium** to write automated unit test cases so that these cases can be test automatically validated during the back test and integration test in future sprints.
- Configured the project using **Maven** to manage the dependencies easily.
- Used **Git** for version control and contributing to the cooperation with colleagues.

Environment:
Java 8, JDBC 4, MySQL 8, JSON, JSP 2.3, HTML5, JavaScript 5, CSS 3, Bootstrap 4, JUnit 4, Mockito 2.25, Java Selenium 3, Maven 2.7.8, Tomcat 8.0, Git

EDUCATION:

- **Master of Science for Operations Research Engineering**
- **Bachelor of Science for Information System and Information Management**