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| **Alvin Yao**  JAVA DEVELOPER | |
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**Summary**

* 6+ years of Back-end developer experience using **JAVA/J2EE** platform and **Object-Oriented Programming** skill.
* Extensive experience in **Core JAVA**, including **Collection**, **Multi-Threading**, **Exception Handling**, **Lambda Expression** and **Stream** etc.
* Familiar with multiple JAVA **Design Patterns** such as **Singleton**, **Factory** etc.
* Professional development experience of using **Spring framework** (**Spring Boot**, **Spring** **MVC**, **Spring** **IoC**, **Spring** **AOP**, **Spring** **JDBC**) and Hibernate to implement **RESTful** web services.
* Worked proficiently with various IDEs including **Eclipse** and **IntelliJ** etc.
* Expert in **MySQL**, **SQL** and **Microsoft** **SQL Server** and experience in No-SQL like **Cassandra** and **MangoDB**.
* Experience of **test tools** like **JUnit, Mockito, Selenium.**
* A solid understanding of source control (**Git**), pull request, and code review processes.
* Experience of **HTML5** and **CSS3**.
* Proficiency in **Machine Learning** including **Linear Regression**, **KNN**, **SVM**, **Logistic Regression**, **Naïve Bayes**, **K-Means**, **Decision Tree** and **Random Forest**.
* Acting as a Team player with a very positive attitude and strong ability to learn new technologies in a fast pace environment.

**Technical Skills**

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| Programming Languages: | Java, Python, C# |
| Operating Systems： | Microsoft Windows, Mac OS |
| Frameworks: | Spring Boot, Spring MVC, Django, Hibernate |
| Data Base: | MySQL, Cassandra |
| Tools: | IntelliJ, PyCharm, Visual Studio |
| Libraries: | Pandas, Numpy, MatPlotlib, Sklearn, Seaborn |

**Professional Experience**

Saint Louis Bank, St. Louis, MO, August 2021 – Present

Participated in the development of a customer information management system based on Spring Boot. Mainly in database creation and maintenance, controller layer implementation. The technologies been used including Spring IoC, Spring MVC, NamedParamterJdbcTemplate, JUnits.

* Stored and collected data by using **MySql database**.
* Familiarized with develop patterns like **Inversion of Control** along with **Dependency Injection**.
* Adopted design patterns like **Singleton**, **Factory**.
* Employed **Spring Boot** to develop the **RESTful Controller** and **Service layer** to handle front-end requests.
* Participated in designed and implemented **Data Access Object**(**DAO) layer** which used **Named Parameter Jdbc Template** to create, delete, read and update the data.
* Core Java technologies be adopted in development process like **Exception Handling**, **IO**.
* Used some new features of java8 such as **Stream**, **Lambda**.
* Used **GitHub** to do **version control** and team work including pull, commit, push, etc.
* Tested code performance by **JUnits**.

The Wildflower Group, Hoboken, NJ, June 2020 – July 2021

The Wildflower Group is a fast-growing eCommerce and digital marketing agency company. This project is mainly about develop a file management system to help employee store and update their files. Technologies been used in this project are: Spring Boot, Hibernate, Mockito and etc.

* Designed and Implemented **Data Access Object**(**DAO**) **layer**.
* Used **Hibernate** framework for **data persistence** and **entities connection**.
* Employed **Hibernate Template** to perform **CURD** operations in MySql database.
* Developed **Service layer**, used multiple **Annotation**s.
* Developed code test by using **Mockito**.
* Participated in the team cooperation with **Agile** developing cycle.

Next Level 30, Hoboken, NJ, January 2018 – May 2020

NL30 is on a mission to help people surpass their own expectations and reach the next level of success in record time. This project is about implementing a website for potential customers to explore many different realities, lifestyles, mentalities and industries.

* Worked on MVC architectural pattern using **Spring** framework.
* **RESTful** architecture was employed with HTTP methods to receive or redirect the incoming request and send response in **JSON** format.
* Developed and maintained data layer using the **ORM framework Hibernate**.
* Involve in all phases of the development life cycle using **Agile** Methodology.

Change Healthcare, Jersey City, NJ, February 2016 – January 2018

Change Healthcare is a leading healthcare technology company, focused on insights, innovation and accelerating the transformation of the U.S. healthcare system through the power of the Change Healthcare Platform. Participated in building a AI-assisted diagnosis system, mainly in data process in back-end, machine-learning models parameter tuning and some Front-end HTML and CSS code.

* Utilized Continuous Integration, Build, and Delivery with **Spring**, **Spring Boot**.
* Familiarity with multiple interface patterns including **RESTful APIs** and event-based messaging.
* Experience in writing basic **SQL queries**.
* Performed code change management by creating branches, merging and software releases using **Git** Version Control system.

**Education and Credentials**

Master of Engineering in Environmental Engineering, May 2021

* Stevens Institute of Technology, Hoboken, New Jersey; GPA: 3.5/4.0
* Relevant Coursework Includes: Special Topics in SSW: Python, Web Mining, Applied Machine Learning, Intro Probability Theory, Numerical Methods for Civil/Environmental Engineering