**Tao WANG**

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**VISA**: indefinite-leave-to-remain

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| **Profile & Career Target** |

Software engineer with extensive commercial experience in Java and Erlang developing server-side and client-side applications. A conscientious but friendly team player seeking a position as software developer on skills already acquired.

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| **Skills** |

* Programming: Java, JEE, Erlang
* Operation System: Windows, Linux (CentOS)
* IDEs: Eclipse, Intellij, VIM
* Java Cache: Gemfire, Hazelcast
* NoSQL: Riak
* Source Control: Git, AccuRev, SVN

**Languages:**

* Chinese (Native) and English (Fluent)

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| **Experience** |

**Aug/2017 – NOW, Software Developer (Java), Barclays**

Development of a complex role/user App (called FullServe) for branch/call centre staffs.

The bank has multiple channels, branch, telephony, mortgage etc. This app integrated all apps for different channels into one.

Challenges are gathering and verify requirement, Reliability and Robustness

Extensive use of Spring boot, Spring, Spring cloud.

**July/2013 – July/2017,**  **Software Developer, BET365**

Development of complex, high throughput, low latency, distributed systems.

Core Java programming for various applications on Linux servers.

Network traffic Analysis at TCP level. I.e. Wireshark traffic analysis

Applications (components) that I have been involved include:

***Nov/2015 –Jul/2017 Erlang/Java development***

**Session Management** **Platform**, critical component to bet365.com. Design and rewrite the Java/Gemfire based distributed cache to Erlang.

Key challenges are throughput and response time. The system has 40K requests per second.

***Jul/2013 - Nov/2015 Java development***

*I re-wrote, fixed bugs and maintained these applications.*

**Affiliate Banner Cache**was a ***read/write cache*** for bet365 banners. The peak value was about 3200 requests per second at live. Inside the application, it polled the database and cached the data, and recorded client’ click and wrote into database in batch.

**Web Tracking Cache** was a ***write*** cache. it recorded every request to bet365.com and write the data into Hadoop. Inside this application, requests were stored in cache and were written into Hadoop in batch.

**Geolocation cache service**, provide Geo-location Data for Affiliate Banner and Forensic Monitoring. This component loaded big file (~3G) to memory and expose service via REST interface. Key challenge was memory leak and garbage collection.

**Data publisher monitor**, it monitored over 200 servers in bet365.com. It mocked client to connect to the publisher with TCP/HTTP long polling/webscoket, and Used the Java concurrency package for the thread pool.

**June/2011 – June/2013, Java Developer, Playtech (Game Technology Solutions)**

Design and Develop game engines according to mathematical model and verify payout to ensure the correctness of games (***SLOT, Virtual Sprots***)

Liaise with 3rd party game developers to ensure the successful integration of games.

Use of architectural design patterns throughout, such as application services, facade and factory patterns and

Write Java modules using object design pattern, such as Singleton, Command, Builder, Factory, Fly Weight, Strategy as well as others.

Extensive use of Springframework IOC, XML, XSLT

**May/2008 – June/2011, Web Service Developer, UNIVERSITY OF BEDFORDSHIRE,**

Design and develop a data repository and web GUI for medical image storage.

Development of JEE web software using JSPs, Servlets, Spring and back-end Java controllers on Tomcat

Rewrite exiting C++ code with Java and expose it as web service, and integrated it into the data repository.

**Feb/2007 –Feb/2008**, **Graduate Java Developer**

**Fusion InterTrade Ltd, Belfast**

Developed JEE n-tier web based application using Spring MVC, Servlets, JSPs HTML, JavaScript, Spring JdbcTemplate

Extensive use of MySQL, SQL, JDBC, Spring JdbcTemplate

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| **Education** |

Sep/2005 – Dec/2006 University of Ulster

**MSc in Telecommunication and Internet Systems**

Sep/2001 – Jun/2005 University of Ulster

**BSc Hons Computing Science**