Jing Chang

Resume

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Career Objective

Looking for a Software Developer position in an organization where I can utilize my existing skills and knowledge and develop new skills to contribute in the accomplishment of organizational goals.

Education

2015–2016 **M.S.in Computer Science**, *Florida International University*, Miami, FL, USA, *GPA: 3.4*.

2011–2014 **M.S.in Computer Science**, *Beihang University*, Beijing, China, *GPA: 3.5*.

Experience

Academic Experience

2016.10–2016.12 **Software Engineer Intern**, *Geographic information system Center*, FIU, Miami, USA.

- Worked with a geoportal which is a gateway to Web-based geospatial resources. Data providers can use the geoportal to make their geospatial resources discoverable, viewable, and accessible to others. The user interface of the geoportal utilizes the JavaServer Faces (JSF) framework. Requests from website pages are processed by Faces and routed to the appropriate geoportal controller for execution. Customized the user interface on JSF framwork according to the user requirement and implemented the web page to make an ajax call from jQuery to access resources through the geoportal's REST api.

2014.9–2015.5 **Research Assistant**, *International Hurricane Center*, FIU, Miami, USA.

- Worked with multiple discipline teams to improve Florida Public Hurricane Losses Model that is supported by the Florida government using data processing methods (designed and implemented database schemas and stored procedures to store and manipulate large insurance datasets) to process the policy data from insurance companies to predict the possible losses. This model implementation is a collection of programs and scripts mostly in Java, C++ and shell scripts.

- Recovered 3D Animation and Visualization System provides more specific weather information and more vivid presentation of numerical hurricane prediction models. This System Architecture is based on the VTP Platform that is an open-source project for easily constructing any part of the real world in the interactive and 3D digital form. The platform primary function is modeling terrain and render simple building and plant models.

Industry Experience

2012.7– 2014.7 **Senior Software Developer**, *Service Delivery and Operation Department,Ericsson (China) Company Ltd*, Beijing, China.

Job responsibilities include requirement analysis, solution design, software development/test, system integration and support.

Focus area: OSS, BSS, Network Function Virtualization

- Designed, implemented and integrated a business intelligence system called Jiangsu Mobile Revenue Assurance Project which breaks in BSS business case for Ericsson. This project is used by the Telecom Operators, using data analysis techniques to solve the problems of preventing revenue loss and standard income security processes. The web part implementation utilizes SpringMVC framework and the runtime part is able to schedule 100+ ETL jobs on top of architecture of Oracle. Mainly be responsible for performing a multitude of functions to deal with the data from BSS data sources by Kettle engine tool.

- Implemented a RESTful Web Service API system Using HTTP and the principles of REST and integrating with Spring in order to provide support Media Delivery Management System that is a Copyright of Ericsson, which just accept form object request. Designed HTTP methods to manipulate the resource or collection of resources, send the methods request to fetch the response of JSON String transformed to add key-value pair into the form object along with the post call Response.

- Designed and implemented Customer Device Management Project that is able to remotely manage a connected device. The system achieved Business Intelligence on used devices. The Bi Platform supports to query latest terminal information like capabilities, attributes, realize structured data using various views to export using several formats based Birt tool and offer a specific graphics engine based on JFreeChart which allows to develop single ready-to-use graphical widgets.

- Investigated and implemented CMCC(China Mobile Communication Corporation) IPM(Integrated Performance Management) project that aims to deliver a fully functional, integrated platform for CMCC to support the operation performance management area across Mainland China. The platform focus on massive data collection, transforming, storage and sharing and provides Big Data solution to build full-featured, excellent performance system to customers. The generic data flow is from the data which can be collected from BSS analysis system, processing by ETL tools, parsing and computing in Steam Engine and eventually importing into MPP database. Pivotal Hawq has been chosen for handling the massive data storage, computing and query relevant data.

- Designed and implemented an interface called VIMGW that provides convertor between CMCC c7 interface and ECEE/Zabbix, support physical/virtual resource status monitoring task from NFVO(a platform from CMCC) to fulfill the ECEE gap in CMCC specific resource management workflow. This interface is able to collect physical/virtual resource PM counter from Zabbix and report to NFVO, also sending response alarm to NFVO. This interface is implemented by Jersey framework. The virtual data resource stored in the openStack platform of ECEE can be transformed into the Zabbix by the python ZabbixCeilometer procedure.

2011.7– **Software Developer**, *Surekam Company Co., Ltd*, Beijing, China.
2012.6 Focus area: Database, Linux

- Desgined and implemented a Customer Relationship Management System for China UnionPay Corporation. This system is used MVC-Stuct framework including Ajax technology in the front-end to develop the user interface, using Spring IOC to complete the business logic and Hibernate in the back-end to connect the Orable Database.

- Implemented backup and recovery procedure for database on Unix/Linux Servers, wrote shell scripts for information gathering and log file statistics and monitoring server activity logs, database and OS performance usage and status using Nmon.

- Desgined, developed, tested relational databases using Stored Procedures, functions, Cursors and Triggers.

2008.7– **Billing Service Engineer**, *Telecom Department,China United Telecommunications*
2011.6 *Co.Ltd*, Beijing, China.
Focus area:OSS, BSS, Telecom Billing

- Worked with Telecom Billing Systems which are high end, reliable and expensive softwares and provide various functionalities including applying required usage and rental charges and finally generating invoices for the customers. Telecom Billing process also includes receiving and recording payment from the customers. The Billing System should be composed of a series of independent applications. After a call is made, the system gathers usage data from the network switch and build a call detail record that is stored until it can be rated. The rated information is stored until the invoice is run. When the invoice is run, other monthly fee can be applied to the bill. The whole business processing is implemented by Stored Procedure or PL/SQL blocks and C++/Java Code.

Programming Skills

Languages:	Java (proficient), Python, Php, Javascript, Shell Script
Frameworks:	Struts, JSF, Hibernate, Spring, SpringMVC, ibatis, Apache Hadoop, Django, Jersey Rest, OpenStack
Application Servers:	Tomcat, Apache, WebLogic, Jetty
Tools:	Eclipse, Git, SVN, Ant, Maven, BitBucket, Toad, Zabbix, Pentaho Kettle, Birt, Nmon, SoapUI
DB:	Oracle, MySQL, PostgreSQL, Sybase, Pivotal Hawq, HDFS, Hive, Hbase
Platforms:	Windows, Unix, Linux, Andriod