Technical Skills

An innovative software engineer with 8 years of development experience, and expertise in:

- C++/C#, Java, Object-C programming on Unix/Linux/Windows/iOS
- Concurrent and distributed applications with Akka/Scala, Mayen/SBT
- Strong multithreading, debugging and troubleshooting skills
- Cloud computing, Amazon Web Service, EC2, REST/SOAP
- Hadoop HDFS and MapReduce framework internals
- Using Python, Hive/Pig to implement MapReduce jobs to support distributed processing
- PHP, jQuery, node.js, MySQL, SQL Server, Oracle and MongoDB
- Perl, XML/Json, Javascript, Unix Shell, PowerShell
- Expert in software configuration methodologies: Agile, IBM ClearCase, Git/SVN/TFS

Experience

Washington State University

Vancouver, WA

Research Assistant

Aug 2013 - Present

- A Resource Allocation middleware for distributed system Design a resource allocation strategy in data sensitive environment Implement this strategy by Java/Scala, Maven/SBT and AKKA 2.3.5 Build a middleware library to enable developers to allocate the resource automatically
- A constraint-based job Scheduler for Hadoop YARN Design a job-scheduling algorithm to satisfy the resource constraints Implement the algorithm and build a job scheduler plugin library for Hadoop YARN Setup a multi-node Hadoop cluster by Virtualbox and Ubuntu on the lab Use Python, Hive and Pig to implement MapReduce jobs to verify the scheduler

Diebold Shanghai, China Sep 2008 - Aug 2013

Senior Software Engineer/SCM Administrator

- Enhanced Operator Assistant Suite

A turn-key maintenance solution for Bank operators on Opteva and Haibao ATMs Platform: .NET framework/C++/C#

Participated in development with WPF & jQuery for this touch screen application Solved the test issues and supported the feature deployment on site System maintenance and technical support for China Construction Bank

- Bulk Cash Recycler Module-USB Firmware Download Feature Project scale: Client/Server architecture, about 12,100 lines code total Technical lead - controlled schedule, dealt with cross team issues, conf-call with PM in States; Excelled in Agile application development, drafted the design doc, coding, and unit tests

Alcatel-Lucent

Shanghai, China

Software Engineer

Jan 2006 - Aug 2008

- Developed data management solutions and Web applications for China Mobile, China Unicom and T-mobile

Alcatel-Lucent 8650SDM (Subscriber Data Management)
 SDM provides comprehensive solution for managing subscriber related data
 Platform: Unix/C++/Java/XML/MySQL Cluster

Responsible for the complete encode/decode implementation Increased call attempts per second by 60% by introducing multi-threading mechanism to achieve more efficient CPU usage in SDM

- ngHLR (Lawful Interception Feature)

Lawful interception offers a complete system for transparently intercepting and extracting real time information from the vast amounts of voice, data and multimedia communications

Platform: Unix/Java/XML/SOAP

High level design and low level design, develop with SOAP

Feature implementation through cooperation with US colleagues for T-Mobile

CPEMS(Customer Premise Equipment management System)
 CPEMS is a Browser/Server system that is used to manage customer-posted devices
 Platform: .Net Remoting, ASP.NET,ADO.NET, XML and SQLServer
 Participated in developing the international version of the system Implement two features:
 device alarms management and batch uploading files

Leadership and Service

• MESA Mobile Apps Challenge Code Judge,

Vancouver, WA 2015

Education

Washington State University

M.S. in Engineering and Computer Science

May 2015

Huazhong University of Science and Technology

M.S. in Software Engineering

Yangtze University

B.S. in Mechanical Engineering

Vancouver, WA

Wuhan, China

Dec~2005

Jingzhou, China June 2002

Certificates and Training

• Project Management Professional Certification (PMP)

Shanghai, Oct 2010

• Six Sigma Green belt certification

Shanghai, Feb 2010

• IBM Rational UCM (ClearCase and ClearQuest, BuildForge)

North Canton, OH, June 2009