# XIAOPENG LU

# 1707 Amhearst Walk Road, Lawrenceville, GA, 30043

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# EDUCATION

**East Tennessee State University (ETSU)** Johnson City, TN

***Master of Science in Applied Computer Science***  *May 2013*

**Beijing Jiaotong University (BJTU)** Beijing, China

***Master of Engineering in Computer Science and Technology*** *July 2009*

**Tianjin University of Commerce (TUC)** Tianjin, China

***Bachelor of Science in Information and Computation Science*** *July 2007*

# WORK EXPERIENCE

**Watchdata System Co., Ltd.** Beijing, China

***Software Engineer*** *in Center of JCRE Platform Development July 2009– July 2011*

Tools: Eclipse with JCRE plugin, TCK and Visual Studio 2005

* Analyzed JCRE 3.0 handler framework (session handler, security handler, filter handler and servlet handler) and streamlined servlet container to make it run fast in a Java Card.
* Implemented CryptoProvider to provide algorithms: MD5, SHA1, DES, RSA etc, for Java Card Runtime Environment 3.0 API, developed implementations of interfaces: DES, DESKey, KeyPair etc and SSL/TLS Protocol.
* Designed test cases to test all implementations of encryption pack for JCRE 3.0 API and used TCK to make regression test for JCRE 3.0 API.
* Used UML to create class diagram, sequence diagram and state diagram to document all API design and implementation.
* Mentored new team members on topics (Servlet specification and SSL/TLS protocol) related to our program.

# ACADEMIC AND RESEARCH EXPERIENCE

**ETSU department of Computer and Information Sciences** Johnson City, TN

***Graduate Research Assistant*** *in GradBase Project* (Web Application Version) *August 2012-May 2013*

Tools: MyEclipse Tomcat and SQL Server 2008

* Designed and implemented GUI by using HTML, CSS, JQuery and used JSP to create some HTML pages dynamically.
* Developed business models and actions by using Struts2 framework and used AJAX and JavaScript to implement partial refresh function and update server side data dynamically.
* Mapped relational database tables into corresponding persistent classes by using Hibernate and used HQL and native SQL to query and retrieve data from database.

***Graduate Research Assistant*** *in Faculty Activity System August 2012-May 2013*

Tools: Eclipse, Orbeon, Tomcat and SQL Server 2008

* Used JSP and Servlet to design and develop a JSP middleware to build communication between XForms and database. The JSP middleware could call store procedures to query and retrieve data from database, manage session to control resource access and parse a XML file to map a virtual URL to an actual URL.
* Designed XSLT files to create HTML header, body, div etc and parse some page-related XML files to build up all XHTML pages.
* Designed AJAX and JavaScript to get session information from server side to implement session expiration warning function and designed CSS codes format all XForms pages
* Used SVN to maintain different FAS versions.

***Graduate Research Assistant*** *in GradBase Project* (Desktop Application Version) *August 2011-May 2012*

Tools: Eclipse, MySQL and SQL Server 2008

* Reviewed old version of the GradBase project which was implemented Visual Basic language to collect all function requirements and interviewed with three instructors to specify requirements.
* Used java swing and awt to design and develop GUI, including JFrame, JTable, JDialog, Layout manager etc.
* Created a database in MySQL first, including creating an ERD, 11 tables and 1view. Then, because of some management problem, the database was transplanted from MySQL to SQL Server 2008.
* Deployed the GradBase project to instructors’ personal machines and deployed the database to a department server machine and maintained them.

**BJTU in Network Management Research Center (NMRC)** Beijing, China

***Graduate Research Assistant*** *in Integrated Network Management Platform November 2007 –June 2009*

Tools: MyEclipse, PLSQL, Oracel 9i and Visual Studio 2005

* Used java swing and awt to design and develop GUI for the Integrated Network Management Platform (INMP) of Shuohuang.
* Designed different types of message objects for JMS, configured message topics for JBoss and used JBoss to publish/subscribe messages between clients and a server in order to synchronize messages among clients.
* Used Java FTP API to develop an upgrading sub-system for INMP of China Unicom
* Used C++ to implement voice warning module for Fiber On-line Monitoring System

**TUC in School of Science**

*Leader of Student Research Training (SRT) October 2004–October 2006*

* Planed and organized meetings for animation software of mathematical concepts
* Implemented the animation of mathematics concepts by using VB

**SKILLS**

Languages: Java/J2EE, C, C++, Servlet, JSP, JavaScript, JQuery, AJAX, CSS, SQL, UML, XML, XML

schema, XPath, XQuery, XSLT

Tools& Framework: Eclipse, SQL Server, SVN, iReport, Tomcat, Orbeon, MySQL, JMS, Struts2, Hibernate,

Spring MVC, IoC and AOP.

Key Courses: Software development project capstone, Software engineering, Project management, Software design, Research methods, Distributed systems, Software verification & validation, Database design, Analysis of algorithms, Network & information security, High Performance Computation, Data structure, Mathematical modeling, General operational research, Differential equations, Mathematical Analysis, Advanced algebra.

# PUBLICATIONS

Lu xiaopeng, and Yang fangnan. Design and Implementation of Rule Discovery System based on Mining Association Rule Algorithm, Railway Computer Application. 2010(3):05-11.

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# REFERENCES

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| **Dr. Phil Pfeiffer**  Professor/Assistant Graduate Coordinator  Computer & Information Science  East Tennessee State University  CSCI Department  467 Nicks Hall  Johnson City, TN  (423) 439-5355  [phil@etsu.edu](mailto:phil@etsu.edu) | **Dr. Martin Barrett** Professor/Assistant Department Chairman/Graduate Coordinator Computer & Information Science  East Tennessee State University  CSCI Department  463 Nicks Hall  Johnson City, TN  (423) 439-7409  [barrettm@etsu.edu](mailto:barrettm@etsu.edu) |
| **Jeff Roach**  Assistant Professor  Computer & Information Science  East Tennessee State University  CSCI Department  474 Nicks Hall  Johnson City, TN  (423) 439-6966  [roachj@etsu.edu](mailto:roachj@etsu.edu) |  |