

Work Experience

Application Developer @ JPMorgan & Chase Columbus, OH 4/2012 – present

- Processed the most valuable information for the bank
- Delivered timely products and services.
- Managed projects and leadership.

Linux Administration @casAlumni.org 2012- present

- Maintain Global infrastructures for <http://CasAlumni.org>; <http://trans-new.com> <http://monevalue.com> <http://www.androidlits.com/>; <http://www.androidlets.com/>;

Senior Consultant @itransnew.com Columbus, OH 2011 – 2012

- Built and managed global technological infrastructures for training activities and infrastructures.
- Provided web related training and coaching services.

Research Associate @Ohio State University at Columbus 2010 - 2012

- Solved a NP problem: placements of wireless devices within commercial buildings for best performance with C#;
- Designed an efficient algorithm, and reduced the running time from days to seconds, beating IBM CPLEX.
- Designed network communication systems and built models to evaluate the performance.

Research Fellow @Chinese Academy of Sciences Beijing 2008 - 2010

- Created a stock trading simulation platform; Java Core Developer and WebMaster of gucasc2c.com
- Built a satellite imagery system to fast imagery processing and achieved 0.5 meter locating accuracy.
- Built a web search engine with Java Core, Servlets, JDBC, tomcat, Apache Lucene and open source crawler.

Selected Pulications

- Geometric Correction System For Remote Sensing Image Processing Based On RPC Model, AutoRPC V1.0, Registration: 2010SR072591, December 25, 2010. Center for Earth Observation and Digital Earth, Chinese Academy of Sciences, China.
- **Patent** <http://www.ccopyright.com.cn/cpcc/RRegisterAction.do?method=list&no=fck>
- Tianyou Kou, C. Emre Koksal and Eylem Ekici, "An Innovative Measure of CNT Device Quality".
- Jia Liu, Tianyou Kou, Hanif D. Sherali, Qian Chen, "Optimal Femtocell Base Station Placement in Commercial Buildings: A Global Optimizaiton." IEEE JSAC Issue on Femtocell Networks 2011.
- Jia Liu, Tianyou Kou, Hanif D. Sherali, Qian Chen, "Location Matters: Optimization Acess Point Placement in 3-D Builidng Environment." MobiHoc 2012
- Dongmei Yan, Tianyou Kou (90% work), "Analysis of Narrow Ridge Estimation For Linear Ccd Rpc Model and Its Applications" 2009 IEEE International Geo-science and Remote Sensing Symposium(IGARSS09)
- Dongmei Yan, Fenfei Wang, Tianyou Kou(40% work), "Geometric Evaluation of SPOT5 Image Using Rigorous Sensor Model and Simple Polynomial Direct Location Model" The Sixth International Symposium on Digital Earth (ISDE6).

Education

- ✓ MS in Computer Engineering, The Ohio State University, Columbus, 6/2010-3/2012
- ✓ MS in Information Processing, Chinese Academy of Sciences, Beijing, 2007 -2008
- ✓ B.S. Information and Computational Science (Math), Harbin Institute of Technology, 1st Class, 9/2003-7/2007

Certifications

- ✓ SOA Web Services for JEE Developers using RAD 7.5 ProTech 4/2013
- ✓ Spring Frameworks for JEE Developers ProTech 9/2013

Skills - Engineer

- ✓ Language: XML, Java, Ruby, Node.js, Python, C++, SQL, HTML, Javascript, AJAX, UML, Matlab, R;
- ✓ Framework: Ruby on Rails, Groovy on Grails, Python on Django, Java on Spring;
- ✓ Back-end: SOA, JAW-WS, WSDL, Schema, Web Service, SOAP, Restful, Jason;
- ✓ Web Servers: Tomcat, Apache, Websphere, Nginx, IIS, Azure Cloud.
- ✓ Programming since 2003 and in-depth usages of data structures, algorithms, and software design patterns;
- ✓ Geospatial engineering, image processing and information retrieval, classification.
- ✓ OS: CentOS, Redhat, Ubuntu, IOS, android, Windows, DOS, *nix system administration and network administration.

Skills – Data and Modeling.

- ✓ Matlab 8 years experience, R, SAS, ETL, SQL, Hadoop, MapReduce,
- ✓ Oracle Database, NoSQL database like MangoDB.
- ✓ statistical modeling, financial engieering, data, time series analysis, random signal processing,