Research & Projects:	**Adapting the Galaxy Bioinformatics Tool to Support Semantic Web Service Composition**, (Funded by NIH), August 2008-present

Adapting the Galaxy Bioinformatics Tool to Support Semantic Web Service Composition, (Funded by NIH), August 2008-present
  ➢ Programming: Python, Mako, Pylons, JavaScript, JQuery, HTML
  ➢ Web service data mediation
  ➢ Flow mediation of service composition

WS-BioZard: A Wizard for Composing Bioinformatics Web Services, (Funded by NIH), August 2007-August 2008
  ➢ Programming: Java, Eclipse Plug-in Development, GMF/GEF/EMF, SWT
  ➢ Web service data mediation: SAWSDL (SAWSDL4j, Radiant), BPEL (NetBeans BPEL engine), OWL (OWL API, Protégé), XML, XSD (JDOM), XPath (Jaxen) , XSLT

Turn your email space into web storage, Spring 2007
  ➢ Implemented a C/C++ program to directly save your local file into your email space and retrieve back

Marrying Folksonomy and Ontology, Fall 2006
  ➢ Combine folksonomies and ontologies to help semantic search among tags based on ontological relationships
  ➢ Programming: Java, Applet, TouchGraph, XML, OWL (Jena), MySql, JDBC

CryptoDB (a member of ApiDB), Spring 2006
  ➢ Maintain and update the ApiDB.org web site (HTML, JSP, Servlet, PHP, CGI, Struts, JDBC, Tomcat)

E-Commerce web site design and development, Fall 2005
  ➢ Java, JSP, Servlet, Hibernate, Tomcat, MySql, JDBC, UML (ROSE)

SNMP network management, Fall 2002
  ➢ Java, AdventNet SNMP API

Water Conservancy Information Middleware of Flood Prevention System in China, (Funded by China National 863 Program) , September 2002 – July 2005
  ➢ XML-based Data Integration (Master's thesis)
    1) Design and implement a system that can integrate various databases including DB2, Oracle, SQL Server, Sybase, MySQL and semi-structured file, e.g., HTML and XML
    2) Programming: Java, JDBC, XML, SQL, XQuery, UML, ANT
    3) Meta-data model design
  ➢ Enterprise Information Portal (Portlet development on JetSpeed, IBM WebSphere Portal)
  ➢ System Integration (C++ Builder, VC++.NET)
  ➢ Web Service (VS.NET)

EJB Application Server Middleware and its Supporting Environment, (Funded by China National 863 Program) , September 2002 – July 2005
  ➢ Servers studied: IBM WebSphere, JBOSS, JonAs, Tomcat, BEA WebLogic
  ➢ Programming: JAVA, EJB, J2EE, JMS, HTML, JSP

Campus Network and Internet-based Information System, Feb. – Jun. 1998
  ➢ Campus Network Framework and Topology Design
  ➢ Development of Internet-based Information System (JAVA, Applet, HTML, ASP, ACCESS)