## Mark Shieh

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**Objective**

A full-time position as a software developer, in a role including design and architecture.

**Education**

**Carnegie Mellon University**, Pittsburgh, PA.   
Bachelor of Science in Electrical Computer Engineering, May 1997.   
Double major in Math/Computer Science.

**Programming Skills**

Experienced in Java, J2EE, EJB, JSP, JNDI, JDBC, SQL, Java Application Server, Swing, C/C++, Python, XML, UML and RUP methodology, design patterns, OO development, PERL, LISP, CLOS, Scheme, Windows NT/2k/XP, Unix (linux and Solaris), HTML, and Javascript.

**Relevant Experience**

Automation Programming, Inc  
**Software Engineer**, November '01 - Present

 Developer for STAN

* Designed and implemented application layer and back-end for a sales tracking tool
* Application layer, written in VBA, using SQL statements and stored procedures to manipulate the database
* Database layer, using a combination of Access and Microsoft SQL Server
* Environment includes Access, VBA, SQL, Windows NT, Windows 2000.

Justtalk, Inc  
**Senior Software Engineer**, August '00 - June '01

 Developer for JustSync

* Designed and implemented a 3-tier application to synchronize Microsoft Outlook and JustTalk databases
* Client layer, written in Javascript and VBScript, using CDO for Outlook functionality
* Application layer, written in Java, communicating via XML/SOAP to client and EJB to the database, running under Tomcat
* Database layer, written in Java, utilizing EJB, JDBC, and SQL, running under JBoss.
* Ported tools from Speechwise Calendar and Speechwise VEDA.
* Environment includes Java, Javascript, J2EE, EJB, JDBC, SQL, XML/SOAP, CDO, Tomcat, JBoss, linux, Windows NT, Windows 2000.

 Developer for Speechwise Calendar and Speechwise VEDA

* Designed an Rapid Application Platform for speech/telephony applications.
* Platform independence from both OS and Voice Browser
* Implemented the vui front end, written in a combination of Java, J2EE, XML/VXML, and Python.
* Implemented a XML/VXML output library
* Implemented a Java adaptor for remote access to Microsoft Exchange Server.
* Implemented the underlying tools, including XML based application configuration, logging, and build.
* Designed and implemented SpeechObjects to provide higher level functionality for user tasks.
* Environment includes Java, Python, J2EE, XML/VXML, Nuance Speechobjects, Tomcat, linux, Windows NT, Windows 2000.

Carnegie Mellon University, Robotics Institute  
**Software Engineer**, July '97 - August '00

* Primary Java and UI developer on OZONE, a reactive scheduler with a Java client interface.
* LISP developer for scheduler back-end
* Designed and implemented the client, written in Java and Swing.
* Designed and implemented socket communication layer.
* Designed and implemented adaptor and serialization code in both Java and LISP.
* Environment includes Java, Swing, LISP, PERL, Windows NT, Solaris, and GUI design.

Carnegie Mellon University, Engineering Research Design Center  
**Research Programmer**, May '96 - December '96

* Expanded functionality of Simdesign, a rapid prototyping tool involving physically based modeling.
* Integrated new physics engine into the user interface.
* Code maintenance and bug fixes
* Environment included C, Solaris, Unix, gcc, make.