

# MUHAMMAD ATIF RAFI CHOWHAN

## PERSONAL INFORMATION

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- Nationality: Pakistani
- Father's Name: Muhammad Rafi Chowhan
- Date Of Birth: 20<sup>th</sup> September 1976
- E-mail: [atifchowhan@yahoo.com](mailto:atifchowhan@yahoo.com)
- Web Site: <http://www.geocities.com/atifchowhan>

## OBJECTIVE

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To test and enhance professional skills in challenging environments producing best possible results.

## EDUCATION

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- **M.S. /M. Phil (Computer Science)** *In Progress*  
Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology Karachi
- **B.S. (Computer Science)**  
2002 Sir Syed University of Engineering & Technology Karachi
- **B.Sc. (Bachelor of Science)** *Majors: Physics, Chemistry, Maths*  
1997 University of Karachi Karachi
- **Intermediate (Pre Engineering)**  
1994 DJ Sindh Govt. Science College Karachi

## AWARDS RECEIVED

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- University Gold Medal awarded by SSUET for securing first position in BS Course studies.
- Scoring 3<sup>rd</sup> position in ProCom 2000 (All Pakistan Programming & Software Competition) conducted by Fast Karachi on Karachi level.
- Scholarships awarded by Operation Badar for securing high grades in module terminal tests.

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## EXPERIENCE

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### **March 2002 – Present**

Working as Vice President (Software Division), Pathfinder Group. The responsibilities include development of I.T. policies, management of compliance issues, management of the team and team resources, analysis, design and development of the information systems, implementation of the developed systems, and business process re-engineering.

During this period several in-house projects were designed, developed, and implemented pertaining to information systems, B2C e-commerce solutions, and account management systems. Also providing consultancy assistance to the sister organisations i.e. SMS (Security Management and Services), SVT (Satellite Vehicle Tracking), ESS (Electronic Safety and Security), CIT (Cash in Transit), SMS Couriers, Social Pages, Defence Journal, and Dynavis (Marketing company) pertaining to their needs in connection with I.T. functions and their business process re-engineering.

### **Prior to March 2002**

Worked as freelance on several commercial projects. List of companies for which the projects are made is as follows:

- Pinnacle Communications International (<http://www.pinnaclecom.net>)
- Empak International's City 2000 Client Information System.

\* The detail of the projects is explained later in the document.

## PROFESSIONAL SKILLS

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- Development of IT Policies
- Management of Compliance issues
- Team management
- Management of team resources

## TECHNICAL SKILLS

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- System Architecture
- Database Architecture
- Software Engineering

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## PROGRAMING SKILLS

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- C/C++ (Object Oriented Programming)
- Visual Basic 6
- Active Server Pages 3.0 (**ASP**)
- Wireless Markup Language (**WML**)
- Java Script

## WORKING KNOWLEDGE

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- Java 2
- Developer 2000
- COBOL

## INTERESTS

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- Modern Cryptography
- Artificial Intelligence
- Graphics & Animation

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## COMMERCIAL PROJECTS

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- **BreezeNet ISP Management System:**

This ISP management system is made for the Internet Service Provider Company named BreezeNet. BreezeNet is the project of **Net Communications 2000 Pvt Ltd**. This is an online web based application, which uses Microsoft web technologies such as Active Server pages 3.0, Internet Information server (IIS 5.0) and RADIUS (Remote Authentication Dial In User Service). Radius protocol sets out a method of carrying authentication, authorisation and configuration information between a Network Access Server (NAS) and a Shared Authentication Server.

The system developed is used to manage all the functions of an ISP. It includes automated creation of managers, dealers, clients, Internet packages, and security policies. Means of updating the manager profile, client profile, dealer profile, Internet packages, and Security Policies are also provided. The special feature of the developed system is its flexibility towards the change in the company policy. The system controls the ISP's ledger, accounts, and generates several reports for the management, and clients.

The system is developed using Microsoft Internet Information server 5.0, Active Server Pages 3.0, Microsoft ActiveX Objects, VBScript, and JavaScript. Microsoft SQL Server 7.0 is used to facilitate the database requirements of the ISP management system.

- **Pinnacle Communications International (<http://www.PinnacleCom.net>):**

An ASP Solution developed for the Medical Transcription Company **Pinnacle Communications International**. The system is developed using Microsoft Access 2000 Database technology as backend.

The developed system is an example of business-to-business e-commerce. It provides the better interface between the company and its clients. The clients can upload the digital dictation files, download the transcribed document files and can view the upload and download history of files also by the module (web page) provided to the clients. The management also uses the website to download the digital dictation files uploaded by the clients and also uses it to upload the document files in the Client's account.

Each client is provided with the unique **user id** and a **password** without which no one could log into his account. The client can also change the password any time he wants. The validity and authenticity of the user is checked at every step of the transaction. The administrator can also monitors all the activities of the users of the system.

The key feature of the system is the better interface between the client and the company plus foolproof security implementations.

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## COMMERCIAL PROJECTS (Continued)

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- **City 2000 Client Information System:**

**City 2000 Client Information System** is a Database Management System, developed for **Empak International**. “City 2000” is a housing project of **Empak International**. The software (**City 2000 Client Information System**) provides the means of introduction of new client into the system. It also provides the means to monitor the statistics for the individual plots of the housing scheme as well as its owners like the payments of the instalments, total amount paid in instalments, remaining amount to be paid in instalments. The software also controls the project’s ledger, accounts, and generates several sorts of reports for the management and clients.

**City 2000 Client Information System** is developed using Microsoft Visual Basic 6 with Microsoft Access as backend.

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## EDUCATIONAL PROJECTS

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- **J Z News Network (Online News Agency Management System):**  
**(BS Course Final Year Project)**

The JZ News Network is the prototype, suitable for the News Agency, which gathers information about the most current global activities and happenings through the vast network of correspondents and provides the selected information to the visitors of their web site and other client Agencies as well. The system designed is the online implementation of the real world working News Agency (Daily The News Karachi, Pakistan) with some modifications to suite the client server technology and the relational database implementation.

The News Agency using this system can communicate to their employees immediately and organize the human resources efficiently. The system also provides the means to distribute several tasks between correspondents, sub-editors, and editors of the organization. Automatic updation of the News Agency's website is one of the salient features of this system due to which no staff required to assemble a new website whenever the website is required to be updated. Online management of the web site provided with special security features. Adapting this system requires no need of manual work. Another feature of this system is that the end-user (the visitor of the web site) can also access the JZnn site using the WAP enabled mobile phones.

The System is developed using Server technologies such as Active Server Pages 3.0 with Oracle 8i Server on the backend. WAP access also provided to the visitors of the JZnn site for the WAP phone users as well as html version for PC users.

- **Web Bazaar (web based Application):**

On the internet E-commerce is growing day by day. **Web Bazaar** is web-based application. It is a complete online shopping store that supports online management also. The user can view and select from vast range of items from many categories. The selected items are added to his shopping cart, from which any or all items can be checked out. Transaction of cash is done by credit cards. The system provides the management with many facilities that are inventory control, Accounts, ledger, shopping cart management, and credit card validation. Credit cards are checked for validation and for credit status through third party services. The website is the online implementation of a real-world shopping store. The website provides all the tools required for the efficient e-commerce.

The Web-Bazaar is developed using Server technologies such as Active Server Pages 3.0 with Oracle Server on the backend.

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## EDUCATIONAL PROJECTS (Continued)

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- **Sniper (web based Application):**

Sniper is a handy and efficient way to use Web search engines to find information. It is very easy to operate. Just enter the search terms, click on Match All Keywords or Match Any Keywords, and Sniper will use the default Internet connection to check several of the more popular search engines (Lycos, Alta Vista, Excite, Hotbot, WebCrawler, Magellan, Infoseek, Yahoo, Veronica, Google, MSN, Go, etc). It can also perform more advanced searches, limiting the number of matches in total or by engine. Once the results are returned, Tool tips give a little more information about a site. Double-clicking the result will bring up the browser and launch the page. Customisation is also provided to change the various features of Sniper for the user's comfort. The use of this software provides great ease to the user as he could search through many search engines one at a time saving time and inconvenience.

This Search Engine utility is developed with Visual Basic 6.

- **Shaheen Insurance Company Limited (MIS):**

Management Information System (**MIS**) designed for the implementation at the Shaheen Insurance Company Limited, as MIS Case Study Project. Shaheen insurance Company Limited is the project of Shaheen foundation (**Pakistan Air Force**). Designed MIS helped the Shaheen Insurance Company to develop the right information flow between the departments, preventing loss of important data and information plus it is assured that irrelevant information does not reach to any department. It resulted in the better and efficient working model at Shaheen Insurance Company.

- **P.I.A.C. Employee Information System:**

**Pakistan International Airlines** (PIA) is an international airline, operating globally as a passenger airline as well as cargo. It has offices abroad mostly at all the important cities throughout the world. The employees working in these offices are normally governed by the rules and regulations of the head office apart from some local laws prevalent in certain countries. The system has been developed to regulate the pay and allowances, leave accounts, terminal benefits, and other financial benefits. The system also generates periodical reports pertaining to personal individual's information, leaves, pay slips containing all allowances, and loans obtained from the organisation, recovery and out standings.

The PIAC Employee Information System contains Human Resource Management system (HRMS) and Ledger Management System. It was developed with Visual Basic 6 and MS Access as backend.

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## EDUCATIONAL PROJECTS (Continued)

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### ■ **SSUET Examination System:**

**Sir Syed University of Engineering & Technology** is one of the most advanced and leading universities in Pakistan. There are approximately 2,000 students enrolled with SSUET in the current session (2000). The project of **Examination System (Software)** developed by me & my team members keeps record of each student in an efficient manner. On enrolment by the University, the data of the students is entered into the software (Examination System). The result of the respective student is fed after each semester. A number of customised reports can be generated by the software as per the requirement of the university, i.e.

- Individual marks sheets
- List of all/passed/failed students progress report class wise
- Report of all/passed/failed students discipline wise
- Consolidated Report for all/passed/failed students

The software can self e-mail individual reports, and publish the semester wise results on the internet.

Database Management System, for **SSUET examination Department**, is developed with Microsoft Visual Basic6 and MS Access on backend. It is very useful and convenient for the university.

### ■ **Project X:**

Project X is a computer programme for the better calculation and simulation of projectile. Projectile is used in many fields of science and common day life. The computer program also gives the full details about the velocity of the projectile, height from the ground, distance and angle from the releasing point on the ground. Project X is the computer programme for the study of projectile motion. The simulation of the projectile motion is created on screen using predefined graphics utilities of C programming Language.

### ■ **Prodigy:**

Prodigy is an arcade game made using object-oriented techniques. The game is the implementation of C++ object-oriented programming support along with the graphics library provided. The game is played using the pointer devices such as mouse, keyboard, and computer monitor. This hardware is controlled by the functionalities provided by the C++ programming language.