MOHAMMAD USMAN AHMED

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OBJECTIVE

To join a software development team in a challenging work environment where I can utilize and further develop my skills in software engineering. Starting July, 2008.

TECHNICAL SKILLS

Strengths: Java, C, ActionScript

Familiar with: AspectJ, UML, MS-Access, Subversion, Perforce, DevTrack, Macromedia Flash, GWT, MIPS32 Assembly, HTML, C++, Shell Scripting(bash, tcsh), Scheme, Python, Eclipse, Windows 98/2000/XP, Unix/Linux

EDUCATION

Master of Science, Computer Science McGill University, Montreal, Canada	2007 – expected May 2009
Bachelor of Science with Honours: Computer Science McGill University, Montreal, Canada	2003 – 2007 CGPA: 3.49/4.00
General Certificate of Education (Advanced Level) (Physics, Computing, Mathematics & Further Mathematics Lahore College of Arts & Science, Lahore, Pakistan • Student of the Year Award (2002 - 2003)	2001 – 2003 S)
 Academic Excellence Award in Physics, Computir and Mathematics (2002 - 2003) 	ng,

General Certificate of Education (Ordinary Level) 1998 - 2001 (Mathematics, Physics, Chemistry, Islamic Studies, Pakistan Studies, Urdu, English) Beaconhouse School System, Lahore, Pakistan

RELATED WORK EXPERIENCE

Software Engineer 1

Electronic Arts Canada

- Developed Front End User Interface (Menu/configuration Screens) for FIFA 08.
- Was one of two 'Point of Contact' (POC team lead) between Central Front End team and the FIFA Front End team.
- Was responsible for the entire Front End User Interface from our Central Front End team for the FIFA`08 DEMO version.

Software Engineer Intern

Electronic Arts Canada

- Developed Front End User Interface (Menu/configuration Screens) for FIFA 07 using ActionScript, Macromedia Flash and C++.
- Designed APIs for interaction between the Front End Flash and C++ back end.
- Tuned the entire Front End User Interface. This involved understanding and modifying other people's code to tune the look and functionality of all the user interface screens developed.
- Became familiar with Perforce (for version control) and DevTrack for QA bugtracking.

May 2007 - August 2007

January 2006 - August 2006

PROJECTS

See website for more details and Project DEMOs.

Developed a GoogleMaps tool in Java In this project I worked in a group of 2 to integrate 'common-off-the-shelf' components by writing our own 'glue-code' to experiment on architectural-mismatch. The components used were, an HTML-parser, the GoogleWebToolkit, and the Montreal Bus Schedules website (stm.info). The tool, BusTracker, reads the schedule from the website and shows the current locations of buses and the route of a given bus-route on a Google Map updating dynamically (simulated using the schedules from the website).

Modified an Eclipse plug-in for extensibility in Java January 2007 – April 2007 This Eclipse plug-in was an individual project on extensibility. It was mainly a reverseengineering effort in understanding the detailed workings of an existing Eclipse plug-in, called ConcernMapper, and then modifying it into an extensible version where all Javadependencies of the plug-in were removed to provide extensibility to other languages and were then added on as an extended plug-in specifically for Java.

Developed a Turn-based conquest Game in Java January 2007 – April 2007 In this project we developed, in a team of 5, a turn-based strategic conquest game that is played over the network. This software engineering project provided experience with the complete requirements analysis, design, and development, and integration of the individual parts of game logic, graphical user interface, and network communications in the game.

Developed a Compiler in Java In this project I worked in a group of 2 to develop a compiler in Java that compiled the language WIG (Web Interface Generator) which is a subset of 'bigwig', a high-level programming language for developing interactive Web services, into a CGI-script in C++ to run on the web.

Developed an AI agent for a BoardGame Developed an Artificial Intelligence Agent in Java, using the techniques of Alpha-Beta Pruning and the MiniMax Algorithm for the boardgame Breakthrough, that competed in a tournament at the end of the course.

Application Layer Network (C)

Created an application-aware network and using a virtual network toolkit, GINI, recently developed at McGill, tried out different ways in which a network can accelerate Application Layer Network architecture.

Game Simulator Development (Java)

Course Project for implementing the latest programming techniques. Developed a game simulator in Java using Object Oriented programming techniques and created an AI player for the game that won 2nd place in the class competition. OO Design & Development using UML and Java. Used Subversion as the Version Control software and became familiar with the use of Apache Ant and JUnit testing.

Database Project in MS Access

Final Project for Advanced-Level Computing: "Student Database and Academic Records" Designed and developed a database for managing Admissions and Student Records Client: Lahore College of Arts and Sciences

OTHER WORK EXPERIENCE

Sales Representative

Superior Energy Management – Natural Gas Marketer - Learned persistence and improved communication skills August 2004

2002 – 2003

September 2005 – December 2005

January 2005 – April 2005

EXTRA-CURRICULAR AND VOLUNTEER EXPERIENCE

•	Member of the McGill Engineering Career Centre's (MECC Volunteer CommitteeSeptember 20oWorked on the Newsletter Team to publish the MECCoAssist retired engineers to promote career education a jobs for Engineering & Computer Science students	04 – April 2005 Newsletters
•	Science Representative	2002 – 2003
	Student Council of Lahore College of Arts and Sciences	
•	Peer Counselor	2002 – 2003
AWARDS	Mathematics & Computing (Lahore College of Arts and Science	es)
•	Dean's Honour List McGill University	2003 – 2004
•	Member of the Golden Key International Honour Society McGill Chapter	2004 – Present
•	Student of the Year Lahore College of Arts & Sciences, 2003	2002 – 2003
•	Certificate of Distinction in Euclid Mathematics Contest University of Waterloo	2003

Roll of Honour
 National Physics Talent Contest
 Organized by Pakistan Atomic Energy Commission

2002

ACTIVITIES

President of the Ahmadiyya Muslim Students Association	2005 – Present
Member of the McGill Toastmasters Club	2004 – 2005
Member of the McGill Outing Club	2003 – 2007
Member of the McGill Kendo(Martial Arts) Club	2003 – 2004
Member of the IBEX Adventurers Club of Pakistan Awarded 'Best Trekker' in a Hiking and Trail-Cleaning Expedition to a glaciated pass, Gondogoro-La (18600 ft.) and the Base-Camp of K2, the world's 2nd Highest Peak (16500 ft	2002 - 2003 July 2002

INTERESTS

Other interests include reading biographies, learning history, and traveling.