

REEHAN SHAIKH

3480 UNIVERSITY ST. RM. 318, MONTREAL, QC, H3A 2A7
CELL: 1-514-885-0154 • E-MAIL: REEHAN.SHAIKH@CS.MCGILL.CA
WEB: HTTP://MSDL.CS.MCGILL.CA/PEOPLE/REEHAN

OBJECTIVE

Seeking a position related to the field of Computer Science, with interests in software development and/or research.

LANGUAGES

English and French, spoken and written.

SKILLS

Programming languages include C, HTML, Java, Javascript, Matlab, ASP/PHP, Python, Scheme, (My)SQL, UML, Visual Basic and shell scripting, as well as SVN version control.

Operating system environments include Linux and Microsoft Windows.

Excellent understanding of Object-Oriented Design, Design Patterns and project management (life cycle, design process, requirements analysis, RUP, unit-testing, agile development).

Team and independent working capabilities. Outstanding communication and people skills. Able to handle situations very well under pressure. Innovative, detail-, task- and goal-oriented.

EDUCATION

October 2009 McGill University Montreal, QC

Master of Science: Computer Science (Modeling and Simulation)

- Courses include: Computational Gene Regulation, Optimizing Compilers, Language-Based Security, Software Fault Tolerance and Concurrent and Real-time Systems

May 2006 McGill University Montreal, QC

Bachelor of Science: Computer Science Major, Mathematics Minor

- Computer Science courses include:
 - Algorithm Design, Theoretical Aspects of Computer Science
 - Object – Oriented Design & Design Patterns, Compiler Design
 - Artificial Intelligence, Probabilistic Analysis of A.I., Robotics and Intelligent Systems
 - Networks, Databases, Operating Systems, Data Compression
 - Computer Graphics, Computer Vision, Computational Biology Methods
 - Programming Languages, Programming Techniques
- Mathematics Courses include:
 - Linear Algebra, Discrete Mathematics, Advanced Calculus, Numerical Analysis
 - Probability Theory, Statistics, Ordinary Differential Equations, Theory of Interest

 WORK EXPERIENCE

- 2002 – present Montreal Neurological Hospital Montreal, QC
Administrative Officer Class 2 (Epilepsy, Neurology, Neurosurgery, Intensive Care)
- Coordinated patient tests through a computerized system and communicated crucial information amongst doctors, nurses, patient attendants and other unit coordinators
 - Prepared the unit for the following day’s activities (organized supplies, tests and schedules)
- 2007 – 2008 McGill University Montreal, QC
Teaching Assistant
- Aided professor in creating slides for the course material
 - Graded assignments and held weekly office hours to help and tutor students
- 2004 – 2008 Montreal Neurological Hospital Montreal, QC
Administrative Officer Class 3 (Admissions)
- Communicated with doctors regarding patient admissions – assessed bed situation and advised doctor if patient can be admitted or must be referred elsewhere
 - Managed and coordinated inter-unit and inter-hospital transfers
- 2000 – 2008 Dawson College Montreal, QC
Soundman / Audio Technician
- Overlooked, maintained and setup audio equipment for social events
 - Dealt with well – known local and international artists with attendance of up to 1500 people
 - Lecture 3rd year students on the basics of audio equipment, class sizes of 30

 PUBLICATIONS

- Maheswaran, M., Malozemoff, A., Ng, D., Liao, S., Gu, S., Maniyamaran, B., Raymond, J., **Shaikh, R.**, and Gao, Y. GINI: a user-level toolkit for creating micro internets for teaching & learning computer networking. In *Proceedings of the 40th ACM Technical Symposium on Computer Science Education* (Chattanooga, TN, USA, March 04 - 07, 2009). ACM, New York, NY, 39-43.
- Bodden, E., **Shaikh, R.**, and Hendren, L. Relational aspects as tracematches. In *Proceedings of the 7th international Conference on Aspect-Oriented Software Development* (Brussels, Belgium, March 31 - April 04, 2008). ACM, New York, NY, 84-95.

 RESEARCH EXPERIENCE & PROJECTS

- Developed a plug-in for a toolkit that emulates a local area network, allowing network components (workstations and routers) to virtually exist on a single machine. The plug-in allowed the distribution of these network components to remote machines while maintaining communication between the components via sockets. Written in Python and C.
- Designed a compiler as part of a group project, which took the Web Interface Generator language and compiled it to a web-based Perl script. Presented a report. Written in Java and C.
- Designed a complete GUI-based game of Blackjack, using the concepts of Object – Oriented Design, Design Patterns and Class Diagrams. Written in Java.

Implemented and tested a face recognition algorithm as part of a group project. Presented a scientific paper. Written in Matlab.

Programmed an artificial intelligence game. Placed 3rd in the class tournament. Written in Java.

Designed a text-based database system as part of a group project. Written in Java/SQL/DB2.

Researched and implemented numerical methods for solving partial differential equations as part of a group project. Presented a report. Written in Matlab.

Designed a software package that automatically and easily formats the employee work schedule for the Montreal Neurological Hospital's Epilepsy ward. Written in Visual Basic/Excel.

VOLUNTEER & EXTRACURRICULAR ACTIVITIES

Member of the 2007/08 McGill Computer Science Graduate Committee.

Volunteered to help organize the 2007 CS Games, a North American inter-university computer science competition held at McGill University, Montreal, QC.

Participated in the 2005 CS Games held at Laval University, Quebec City, QC. Activities were both programming and physical in nature.

2002, Recipient of the "Student Services Award in Recognition and Appreciation of Outstanding Contribution to Student Life", Dawson College

2000 – 2002, helped organize numerous events at Dawson College, including the Winter Carnival and the inter-college urban culture competition, Street Heat.

Summer 2001, volunteered at St. Mary's Hospital offering 3 hours per week in each of the Medical Archives and CT Scan departments.

2000 – 2001, Activity Officer for the Dawson Student Union, Recreational Council. Offered 3 hours per week to attend weekly council meetings and club events.

2000 – 2001, member of the Dawson Volunteer Club. Attended biweekly meetings and organized activities where volunteers can effectively give their time to the community.

Volunteer time to tutor various subjects, including computer science, mathematics and physics.

Attended a workshop that dealt with procedures on conflict resolution. Achieved certification as a Peer Mediator.

HOBBIES

I like to bike ride, modify cars with audio equipment as well as DJ once in a while. I enjoy challenging myself and am always creating small software packages that make life a little easier.

REFERENCES

Available upon request