# REYHANE ASKARI HEMMAT-CV

**Information**

www-etud.iro.umontreal.ca/ askarihr/

**Research Interests**

- Cloud and Data Intensive Computing
- Information Security
- Statistical Machine Learning

**Education**

- **University of Montreal, Montreal, Canada**
  Master of Computer Science, September 2014
  GPA: **4.15/4.3**
  **Courses:** *Cryptogrophy(A+), Probabilistic Graphical Models(A), Cloud Programming(A+), Information Security(A)*

- **Amirkabir University of Technology(Tehran Polytechnic), Tehran, Iran**
  B.Sc.in Information Technology Engineering, September 2010-June 2014
  GPA : **17/20**
  **Thesis**: Implementation of a secure smart network with key management using NS2
  **Selected courses's GPA(18.35/20):** *Artificial Intelligence(19), Internet Engineering(17), Principles of Database Design(18.5) , Information and Communications Security(18), Electronic Commerce(18.5), Operating Sys. Design(20), Computer Networks(19), Software Engineering(17) , Design of Algorithms(18), Advanced Computer Programming(18.5)*

- **Farzanegan High School, Kerman, Iran**
  *Affiliated with the National Organization for Development of Exceptional Talents*
  Mathematics and Physics High School Diploma, September 2006- June 2010
  GPA : **98/100**

**Work Experience**

- Summer internship, **National Research Council Canada**, Summer 2015 tasks included:
  - ⋆ Implementation of authentication and authorization mechanisms to insure the security of the website.
  - ⋆ Designing fast, efficient and responsive UI for desktop and iPad platforms with technologies such as Ajax, bootstrap, jQuery and JavaScript.
  - ⋆ Data visualization with D3 and dimple libraries in javascript.
  - ⋆ Comprehensive documentation with Sphinx (delivered HTML and Latex format of the documentations)
  - ⋆ Participation in database design with PostgreSQL
- Summer internship, **Parmoon Information Technology Co**., Kerman , Iran, Summer 2013 tasks included:
  - ⋆ Implementation of a new algorithm for wireless sensor networks using NS2

**Computer Skills**

- **Programming Languages:** C, C++, Java, SQL, OTcl.
- **Network Simulation and Management:** NS2, WireShark
- **Engineering Software:** MATLAB and Bayesian ToolboX
- **Web Design:** PHP, CSS, JavaScript, Ajax, JSP, jQuery, Pyramid,Bootstrap
- **Databases:** My-SQL, Microsoft SQL Server, MongoDB, Big Table
- **UML Design Software:** Rational Rose, Star UML, Microsoft Visio.

- **Operating Systems:** LINUX, Windows.

## Honors

- Awarded the IRO Bourse of Financial support from Faculty of Art and Science, University of Montreal, Fall 2014 and Fall 2015
- Awarded the IRO Bourse of Excellence from Faculty of Art and Science, University of Montreal, 2015
- Awarded the IRO Bourse of Tuition Exemption from Faculty of Art and Science, University of Montreal,2014
- Accepted in the Masters Program at the Department of Computer Engineering and Information Technology (CEIT) of Amirkabir University of Technology, without taking the National Entrance Exam for Graduate Schools, as a reward of excellent achievements in Bachelors program, 2013
- Ranked with in top 0.5% among more than 330,000 students in the national wide university entrance exam in Engineering and Applied Mathematics, June 2010
- Qualified as a member of NODET- National Organization for Developing Exceptional Talents, 2006

## Language Proficiency

- **Persian:** Native
- **English:** Proficient
  **TOEFL** iBT total score:**113**/120
  **GRE** General total score:**320**/340
- **French:** Fair

## Notable Academic Projects

- **Implementation of the iVocab cloud application using Google app engine**
  As the course project for "Cloud Programming", Winter 2015
- **Implementation of "Connect Four" game for PC using JAVA**
  As the course project for "Artificial intelligance", Spring 2014
- **Implementation of an RSS feed reader using XHTML, CSS, JavaScript and PHP**
  As the course project for "Internet Engineering", Fall 2013
- **Implementation of a secure FTP protocol with encryption using JAVA**
  As the course project for "Information and Communications Security", Fall 2013
- **Designing a program using dijkstra algorithm to find the shortest path in an arbitrary place with obstacles using Java**
  As the course project for "Design of Algorithms",Spring 2012
- **Implementation of a multi threaded web server using Java**
  As the course project for "computer networks", Fall 2012
- **Implementation of "RoboKill" game using Java**
  As the course project for "Advanced Programming", Spring 2011

## Notable Technical Reports

- **A Framework for SLA Violation Prediction of Cloud Providers**
  Project report for probabilistic graphical models, Fall 2014
- **A Review on Bitcoin Security**
  Project report for Cryptography,Fall 2014
- **A New Key Management Technique For Smart Grid Networks**
  Bachelors thesis , Summer 2014
- **Duplication Avoidance for Energy Efficient Wireless Sensor Networks**
  Research report, Parmoon information technology company, Summer 2013

## References

Available upon request.