

AMIR SABOURY

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Education

2014–today	M. Sc. Software Engineering – <i>École Polytechnique de Montréal</i>
2008–2013	B. Sc. Computer Engineering – Software. – <i>ECE Faculty - University of Tehran</i> Relevant Coursework GPA: 18.12 out of 20 (3.85 out of 4) Last two years GPA: 16.01 out of 20 (3.15 out of 4)

Research Interests

Large Scale & Cloud-based Softwares
Web systems and Service Oriented Architecture

Honors & Awards

May 2012	ACM International Collegiate Programming Contest World Finals Ranked 83 rd , University of Warsaw, Poland.
Nov. 2012	ACM International Collegiate Programming Contest Asia Region, Tehran Site Ranked 2 nd , University of Tehran, Iran. <i>Qualified for the ACM International Collegiate Programming Contest World Finals.</i>
Nov. 2011	ACM International Collegiate Programming Contest Asia Region, Tehran Site Ranked 4 th , Sharif University of Tech., Iran.
2011 – 2012	ACM Excellence Award - UT ACM Website team head, New York, USA.

Research Experiences

Web Application Scaling

Under supervision of Dr. Ramtin Khosravi. Fall 2012 - Spring 2013.

As the internet scales up day by day, our social networks and web applications will have more users. Managing thousands to millions of users in the same time is not an easy task. My thesis is about profiling, horizontal scaling and performance improving of Php/MySQL web applications.

Teaching Experiences

Summer 2013	Advanced Javascript - Instructor. <i>ACM Student Chapter, ECE, UT</i>
Summer 2013	Programing Competition & Algorithms - Instructor. <i>ACM Student Chapter, ECE, UT</i>
Spring 2013	Internet Engineering - Teaching Assistant. <i>Dr. Ramtin Khosravi, ECE, UT</i>
Fall 2012	Database Systems - Teaching Assistant. <i>Dr. Azadeh Shakery, ECE, UT</i>
Fall 2012	Programing Languages Design - Teaching Assistant. <i>Dr. Fatemeh Ghasemi, ECE, UT</i>
Fall 2012	Algorithms Design & Analysis - Teaching Assistant. <i>Dr. Masoud Asadpour, ECE, UT</i>
Summer 2012	Web Design - Instructor. <i>ACM Student Chapter, ECE, UT</i>
Summer 2012	Programing Competition - Instructor. <i>ACM Student Chapter, ECE, UT</i>
Spring 2012	Internet Engineering - Teaching Assistant. <i>Dr. Ramtin Khosravi, ECE, UT</i>
Spring 2012	Algorithms Design & Analysis - Teaching Assistant. <i>Dr. Hamid Mahini, ECE, UT</i>
Spring 2012	Advanced Programing - Teaching Assistant. <i>Dr. Ramtin Khosravi, ECE, UT</i>
Fall 2011	Database Systems - Teaching Assistant. <i>Dr. Masoud Rahgozar, ECE, UT</i>
Fall 2011	Data Structures & Algorithms - Teaching Assistant. <i>Dr. Heshaam Faili, ECE, UT</i>
Fall 2011	Advanced Programing - Teaching Assistant. <i>Dr. Ramtin Khosravi, ECE, UT</i>
Summer 2011	Web Design - Instructor. <i>ACM Student Chapter, ECE, UT</i>
Fall 2010	Data Structures & Algorithms - Teaching Assistant. <i>Dr. Heshaam Faili, ECE, UT</i>
Fall 2010	Algorithms Design & Analysis - Teaching Assistant. <i>Dr. Masoud Asadpour, ECE, UT</i>
Spring 2010	Advanced Programing - Teaching Assistant. <i>Alireza Abedinejad, ECE, UT</i>

Skills

Programming	C, C++, Java, PHP, Javascript, SQL Python, Prolog, Actionscript, Befunge Bash Script, C#, MATLAB, LISP	<i>Guru Expert Familiar</i>
Tools	MySQL, Apache, Hadoop, Map-Reduce, Nodejs, ORM, HTML5, CSS3, jQuery, , MVC, OpenGL, MemSQL, Photoshop, Flash, Dreamwaver, Bootstrap, MangoDB, CouchDB, Nginx, GIT, XHProf, Comet, Web Sockets, JSON, PHP Frameworks	
Technical	Server Administration, Web Security, Web Design, NoSQL, Profiling & Scaling, Database Design, Web application Design and develop.	

Selected Projects

2014-today	Migrating Application to the Clouds An empirical evaluation of design patterns and anti-patterns in Cloud-based applications <i>Implementing and testing design patterns and scenarios in migrating applications to the clouds.</i>
2014-today	MapReduce Scheduler Performance Modeling and Analysis of MapReduce Workloads <i>Simulating real scenarios in Hadoop MapReduce framework and implementing smarter scheduler for the job queue to gain better overall performance.</i>
Summer 2011	ShareCode — <i>Founder, CEO & Developer.</i> Online judge and Social network for geeks who love Algorithms, Programming & Challenges. <i>Used PHP/MySQL/CodeIgniter/HTML/JS/C++/MangoDB</i>
Spring 2012	Human Relations Graph Analysis — <i>Course project of Social Network.</i> Facebook application, used to collect friendship & relationship of users and analyzing it. <i>Used PHP/MySQL/HTML/JS/C++/Excel/Gephi</i>
Fall 2011	Distributed Database — <i>Course project of Computer Networks.</i> Peer-to-peer, reliable & scalable database that uses MySQL in the core. <i>Used Java/Bash Script/MySQL/Linux</i>
Summer 2011	ZaghCiah — <i>Internship project.</i> A web application serves monitoring services for web applications' availability. <i>Used PHP/MySQL/CodeIgniter/HTML/Javascript</i>
Spring 2009	Chatting System — <i>Final Course Projects of Advanced Programing.</i> A multi-user & multi-threaded Graphical client/server chat software. <i>Used C++/Linux/SDL/Linux</i>
Spring 2010	UTAK2 Compiler — <i>Final Course Project of Design & Implementing Compilers.</i> Designed & Implemented a programming language called UTAK2 & it's compiler. <i>Used C/Lex/YACC/Linux</i>
Fall 2012	Befunge-98 Interpreter — <i>Open-Sourced Project.</i> Implemented the first Befunge-98 interpreter in javascript. <i>Used Javascript/jQuery/HTML</i>
Fall 2011	Processor Design — <i>Course Projects of Computer Architecture.</i> Designed Single-cycle, Multi-cycle and Pipelined CPU. <i>Used Verilog/ModelSIM/Quartus</i>
Summer 2008	Journal Subscription Management — <i>Chemical Society Project</i> Web application for managing subscription of journals. <i>Used Java/NachOS</i>
Fall 2010	NachOS — <i>Course Project of Operating Systems.</i> Designed & implemented a CPU Scheduler and File System for NachOS <i>Used Java/NachOS</i>

Language Skills

Persian	Native.
English	Almost fluent.

Leadership & Membership

2010 – today	ACM ICPC Local Contests Judge. <i>ECE, University of Tehran.</i>
2011 – today	ACM Scientific Journal (F1) Editorial board member & Graphic Designer.
Spring 2013	FSEN2013 Fundamentals of Software Eng. Conf. Organization team member. <i>IPM, Tehran, Iran.</i>
Spring 2011	FSEN2011 Fundamentals of Software Eng. Conf. Organization team member. <i>IPM, Tehran, Iran.</i>
2010 – today	ACM AI Contests' Judge & Organizer. <i>ECE, University of Tehran.</i>
2008 – 2009	Student Council Representative Member. <i>ECE, University of Tehran</i>

Work Experiences

2011 – 2012	Maxa Worked as a Developer, Web Master and Graphic Designer. <i>Member of PHP/MySQL tuning & performance team.</i>
2008 - today	Iranian Chemical Society Working as the Server Administrator, Web Master, Developer and Graphic Designer.

References

Available upon request.