BABAK ALIPOUR

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RESEARCH INTERESTS

o Cloud-based Web services
o Web 2.0 Programming and Analytics
o E-Commerce
o Software Design and Analysis

EDUCATION

o **Amirkabir University of Technology (Tehran Polytechnic)**
   B.Sc. in Information Technology Engineering   2010 – 2014 (Expected)
   GPA: 17.73 /20 (119/140 credits passed, Expected to graduate by July 2014)
   Selected Coursework: (GPA: 19.27/20)
   Principles of Database Design (19.25/20), Internet Engineering (20/20), Software Engineering I (19.5/20), Computer Networks I (17.25/20), Research Method & Report Writings (19/20), Data Structures & Algorithms (20/20), Advanced Programming (20/20), Engineering Statistics (18/20), Differential Equations (19.5/20), Logic Circuits (19.6/20), Computer Architecture (19.5/20), Engineering Economics (20/20), Advanced Topics in Software(Data Mining) (18.5/20), Technical English (20/20)

o **Emam Reza High School No.4** , Mashhad, Iran
   Mathematics & Physics Diploma   2006 - 2010
   GPA: 19.52/20

HONORS AND AWARDS

o **Ranked top 0.25%** in the National Entrance Exam among all Iranian Students in Math. & Physics. – **2010**
o **Ranked top 0.1%** in the National Entrance Exam among all Iranian Students in Foreign Languages. – **2010**

TEACHING EXPERIENCE

o **Teaching Assistant, Amirkabir University of Technology**
   • **Advanced Computer Programming,** Dr. Noorhosseini   Spring 2013
   Responsibilities included preparing and grading the homework, holding TA sessions for extra work or Q/A and designing and grading projects.
o **Teaching Assistant, Amirkabir University of Technology**
   • **Computer Architecture,** Dr. Zarandi   Spring 2013
   Responsibilities included preparing the homework and projects and grading the projects.
o **Teaching Assistant, Amirkabir University of Technology**
   • **Advanced Computer Programming,** Dr. Noorhosseini   Spring 2012
   Responsibilities included preparing and grading the homework and projects.
o **Teaching Assistant, Amirkabir University of Technology**
   • **Technical English ,** Dr. Noorhosseini   Fall 2013
   Responsibilities includes preparing and grading homework and helping students with reading technical English content.

EXTRACURRICULAR ACTIVITIES

• Member of Executive committee of the *4th Amirkabir Linux Festival , 2012*
• Member of Executive committee of the *5th Amirkabir Linux Festival , 2013*
• Member of Executive committee of Local ACM contest , Amirkabir University of Technology, 2012
• Member of Executive committee of Local ACM contest , Amirkabir University of Technology, 2013
o **Free Online Courses**
   • Computer Networks, Washington University
   • Machine Learning, Stanford University

PROFESSIONAL AND WORK EXPERIENCE

o **Department of Computer Engineering and Information Technology,**

Amirkabir University of Technology   Dec 2011 – Dec 2013

Network maintenance of the department's computer site which consisted of troubleshooting network and PC problems.

ACADEMIC COURSE PROJECTS

- o **Internet Engineering**
  - ➢ Design and implementation of a graphical notebook web application
    - ▪ Using PHP, HTML5, CSS, JavaScript, jQuery, jQuery UI and MySQL
  - ➢ Implementation of XML parsers
    - ▪ Using HTML, CSS and JavaScript
- o **Principles of Database Design**
  - ➢ Design and implementation of a Database for a Language center
    - ▪ Using MySQL
  - ➢ Design and implementation of a customer relationship management software for a Café that includes logging purchases, sales, customer information and a social feature which allows customers to add friends, view their interests and latest purchases.
    - ▪ Using Java, Apache CouchDB and ektorp
- o **E-Commerce**
  - ➢ Developed a business plan for a freelancing website, entitled "Time is Gold!"

- o **Computer Networks I**
  - ➢ Implementation of a multi-threaded web server
    - ▪ Using Java
  - ➢ Implementation of an HTTP and HTTPS proxy server
    - ▪ Using Java
- o **Computer Graphics**
  - ➢ Design and implementation of a software allowing for drawing of different 2D and 3D objects and supporting different clipping algorithms
    - ▪ Using Java and JOGL
- o **Design and Analysis of Algorithms**
  - ➢ Implementation of Dijkstra algorithm to find the shortest path between two points
    - ▪ Using Java
- o **Data Structures and Algorithms**
  - ➢ Implementation of MX QuadTree with a graphical user interface
    - ▪ Using Java
- o **Advanced Computer Programming**
  - ➢ Implementation of a web browser
    - ▪ Using Java

COMPUTER SKILLS

- o **Programming:**
  - o **Experienced in** Java (SE, EE), XHTML, CSS, PHP, SQL
  - o **Familiar with** C/C++, HTML5, XML, XPath, JavaScript, jQuery, VHDL, Verilog
- o **Database Management Systems:** MySQL, MongoDB, Apache CouchDB, PostgreSQL
- o **Softwares:** NetBeans IDE, Visual Studio ,Eclipse, Wireshark, Nmap, ModelSim, MATLAB
- o **Content Management Systems:** Joomla, Moodle

LANGUAGE SKILLS

- o **Farsi (Persian):** Native
- o **English:** Fluent
  - • **TOEFL-iBT**(September 2013): 117/120
    Reading 29/30, Listening 30/30, Speaking 28/30, Writing 30/30

REFERENCES

Available Upon Request.