BABAK ALIPOUR

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RESEARCH INTERESTS

o Cloud Computing
o Distributed Computing
o Data Mining
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: 17.71 /20 (**Last 2 years: 18.91 /20**)
   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: 19.45/20

HONORS AND AWARDS

o Eligible for applying to continue my education in the **Masters' Program at the Department of Computer Engineering and Information Technology (CEIT)** without taking the "National Entrance Exam for Graduate Schools", as a reward of having total GPA above 16. – **2013**
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**

RESEARCH EXPERIENCE

o **Cyber Space Research Institute (CSRI)**, Tehran, Iran
   Cloud-Based E-Learning Solution   Summer 2013
   Research on different methods and considerations for designing and implementing an e-learning solution based on a cloud platform, done as my summer internship at CSRI.

TEACHING EXPERIENCE

o **Teaching Assistant, Amirkabir University of Technology**
   • **Advanced Computer Programming,** Dr. Nourhosseini   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. Nourhosseini   Spring 2012
   Responsibilities included preparing and grading the homework and projects.
o **Teaching Assistant, Amirkabir University of Technology**
   • **Technical English ,** Dr. Nourhosseini   Fall 2013

Responsibilities includes preparing and grading homework and helping students with reading technical English content.

- o **Teaching Assistant, Amirkabir University of Technology**
  - **Data Structures ,** Dr. Dehghan   Fall 2013
    Responsibilities includes preparing the homework and helping students with projects.

EXTRACURRICULAR ACTIVITIES

- Member of Executive committee of the *1st National Programming Contest for High School Students*
- 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 the First National Workshop on Cloud Computing, 2012
- Member of Executive committee of Local ACM contest , 2012
- Working as a free-lance JAVA developer
- Took part and got Certificate of Achievement in "JAVA Challenge" at Sharif University of Technology
- Working as a free-lance Web developer (HTML, CSS, PHP, JavaScript)
- o **Free Online Courses**
  - Computer Networks, Washington University
  - Machine Learning, Stanford University

PROFESSIONAL AND WORK EXPERIENCE

- o **Intelligent Data Miners Co. & Cyber Space Research Institute**   Sep–Oct 2012
  CSRI is the leading company in Iran in the field of IT. As a computer engineer, I was assigned by IDM to help a group which helped upgrading the network system of CSRI. My job included daily interactions with employees and colleagues. We managed to gather data from 700 employees in one month.

- o **Department of Computer Engineering and Information Technology,
  Amirkabir University of Technology**   Dec 2011 – Present
  Network administration and maintenance of the department's computer site which includes managing servers, deployment of windows installations on over 70 computers, monitoring the network and troubleshooting problems.

ACADEMIC COURSE PROJECTS

- o **Final year dissertation:**
  - ➢ Improving MOODLE (Modular Object-Oriented Dynamic Learning Environment) using cloud-based services with a focus on course management
    - ▪ This is a work in progress. The objective is to exploit MOODLE's modular design to distribute it among cloud services. Furthermore, a couple of prototype services that can greatly help with course management are being developed.
- o **Advanced Topics in Software Engineering (Data Mining)**
  - ➢ Compilation of a research paper on Letter Recognition comparing many different classification methods including KStar, KNN, Decision Tree, etc with and without preprocessing and also, use of bagging and boosting meta-classifiers to achieve a high classification accuracy
    - ▪ Using Weka Explorer and sample dataset provided freely by UCI
- 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 **Database Design lab**
  - ➢ Technical presentation and a live demo on Classification and Clustering
    - ▪ Using Weka and MATLAB
- 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
- Compilation of a research paper on Apache CouchDB
  - **E-Commerce**
    - Developed a business plan for a freelancing website, entitled "Time is Gold!"

  - **Research Method and Report Writing**
    - Technical presentation and report on Humanoids
  - **Computer Networks I**
    - Implementation of a multi-threaded web server
      - Using Java
    - Implementation of an HTTP and HTTPS proxy server
      - Using Java
  - **Computer Graphics**
    - Design and implementation of a CAD software allowing for drawing of different 2D and 3D objects and supporting different clipping algorithms
      - Using Java and JOGL
  - **Design and Analysis of Algorithms**
    - Implementation of Dijkstra algorithm to find the shortest path between two points
      - Using Java
  - **Logic Circuits**
    - Design and implementation of XO game on a logic circuit
      - Using ModelSim and Proteus
  - **Data Structures and Algorithms**
    - Implementation of MX QuadTree with a graphical user interface
      - Using Java
  - **Advanced Computer Programming**
    - Implementation of a web browser
      - Using Java
    - Implementation of a graphical game name jRobokill with semi-intelligent agents
      - Using Java

COMPUTER SKILLS

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

LANGUAGE SKILLS

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

REFERENCES

Available Upon Request.