Saba Akhyani

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CONTACT INFORMATION	Department of Computer Engineering and Information Technology, Amirkabir University of Technology, Tehran, Iran http://ceit.aut.ac.ir/akhyani	+98 930 440 1036 saba.ak95@gmail.com saba.ak95@aut.ac.ir
RESEARCH INTERESTS	 Computer Vision Object Recognition Affective Computing 3D Object Detection Virtual Reality and Motion Human-computer Interaction 	-
EDUCATION	Amirkabir University of Technology (Tehran Polyte (Ranked 85 th in Computer Science [U.S. News]) B.Sc., Computer Engineering, -Cumulative GPA of Last 60 credits: 18.13 /20 (3.6 /4) -Selected courses GPA ¹ : 18.77 /20 (3.9 /4)	chnic), Tehran, Iran Sept. 2013 -Fall 2017
	Kherad High School, Tehran, Iran High School Diploma in Mathematics and Physics, September 2010- September 2013 - Cumulative GPA: 19.60/20	
HONORS AND AWARDS	 Ranked top 0.5% among all applicants for the University Entrance Nationwide Exam (Approximately 250000 applicants) Ranked in the top 5% to 10% among about 100 students of Computer Engineering and IT Department, Amirkabir University of Technology Admission to Graduate Program (M.Sc.) at the Computer Engineering and IT Department, Amirkabir University of Technology, without taking the National Entrance Exam for Graduate Schools as a reward of achieving high GPA among Computer Engineering Students Entered 2013. 	
Teaching	• Teaching Assistant, Amirkabir University of Technology	
Experience	 Data Structures and Algorithms Instructor: Professor Mehdi Dehghan TakhtFoola 	<i>Fall 2016</i> di
	 Fundamentals of Programming Language Instructor: Professor Ehsan Nazerfard 	Spring 2017
	 Fundamental of Programming Language Instructor: Professor Saeed Shiry Ghidary 	Fall 2017
	 Research method and Report Writing Instructor: Professor Reza Safabakhsh 	Fall 2017
	 Electrical Circuits Instructor: Professor Mahmoud Momtazpour 	Fall 2017

WORKING EXPERIENCE

• Developer, Dotin Company

Summer 2016- Now

Implementation and Design of an Internal Portal for Employees Using MySQL, PHP, JavaScript, AJAX

¹Artificial Intelligence (20), Multimedia Systems(20), Data Structures and Algorithms (18.3), Foundations of Data Mining (20), Principles of Database Design (20), Internet Engineering (19.25), Advanced Computer Programming (17.5), Principles of Computer Programming (15.25), Research Method and Report Writing (19), Electrical Circuits (20), Electronic Circuits(19.09), Signals and Systems(17)

AND EXPERIENCES

RELATED COURSES • Machine Learning Online Course at Stanford University Instructed by Andrew Ng, Including Supervised and Unsupervised Machine Learning Algorithms

Summer 2015

- VR App Development Online Program at UC San Diego Sept. 2016-Now A Program Including 3 courses: How Virtual Reality Works, Computer Graphics and Creating VR apps
- Shape Recognition and Movement Tracking

Summer 2016

Object Recognition and Movement tracking in a .mov animation file using Deep Learning (Java, Deeplearning4j, Classification)

• Victim Detection and 3D Pose Estimation from 2D Images In Progress for a Rescue Robot

Implementation of a Victim Detection and 3D pose estimation System using Object Detection Methods and CNN Algorithms

Technical Reports

• A Survey on Virtual Reality Uses in Health care

VR uses in Mental Disorder Treatments such as Phobias, Technical report for Research Method and Report Writings Course

SELECTED ACADEMIC Projects

• Web Development

Implementation of a Gaming Website Including Chess and Sudoku using JQuery Implementation of a Simple Gmail Using HTML, CSS, JavaScript, PHP, MySQL

• Data Mining

Titanic Passengers Survival Prediction: Comparing Different Preprocessing Techniques and Algorithms on Titanic's Passengers Dataset, Using Decision Tree, Random

House Pricing Prediction Using Lasso, Gradient Boosting Fraud Detection on Banking Transaction Data Using Random Forest, Neural Network, SVM, Logistic Regression

• Principles of Database Design

Implementation of a Taxi Reservation System Using MySQL, JavaScript, AJAX, PHP

• Data Structures

Implementation of Huffman Coding Data Compression using MFC (using bst and decision tree to achieve the closest answer)

• Advanced Computer Programming

Implementation of a Graphical Multi-player Maze with Obstacles Using Java Implementation of Bubble Screensaver using Java and Multithreading Implementation of Tank Game, a game with multiplayer support using Java

• Principles of Computer Programming

Implementation of Police and the thief game using C Implementation of a Simple System For Registering Students at University Using C

TECHNICAL SKILLS

• Programming and Scripting Languages

C, C++, Python, Java, Verilog

• Database Management Systems

Microsoft SQL Server, MySQL

• Web Development

HTML5, CSS3, JavaScript, PHP, jQuery, XSLT, XML, AJAX

• Softwares

Adobe Photoshop, Opengl Microsoft Visual Studio, NetBeans, IntelliJ Idea, PHPStorm, Pycharm WEKA, RapidMiner

ModelSim, Xilinx ISE, Orcad PSpice, Proteus

Microsoft Word, Microsoft Excel, Microsoft PowerPoint

Language Skills

• English: Full Working Proficiency

TOEFL iBT Score: **108**/120

• Persian: Native

Hobbies

- Swimming & Cycling
- Singing and Playing Piano