Omid Chehreh Gosha

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EDUCATION

SHARIF UNIVERSITY OF TECHNOLOGY | B.Sc in Computer Engineering, Software Major
Sep 2014 - Present | Tehran, Iran • Cum. GPA: 15.7/20
Bachelor thesis: Implementation of 3D Human Action Recognition system using Recurrent Neural Networks and LSTMs to handle sequential data.

SHAHID EJEI HIGH SCHOOL | High School Diploma in Mathematics and Physics Discipline
2010 - 2014 | Esfahan, Iran
National Organization for Development of Exceptional Talents (NODET).

RESEARCH EXPERIENCE

SHARIF UNIVERSITY IMAGE PROCESSING LABORATORY | Bachelor Thesis
July 2018 – Present | Tehran, Iran
Implementation of 3D-Human Action Recognition system using human skeleton-based representation to achieve robustness in different point of views. Considering this representation as a time series problem to recognize humans actions, using Recurrent Neural Networks (RNN) and Long Short-Term Memory (LSTMs) to handle sequential data with variable lengths.
Under supervision of Professor Shohreh Kasaei.

WORK EXPERIENCE

CROUSE COMPANY | Research and Development department Intern
April 2018 – Dec 2018 | Tehran, Iran
- Internship in Research and Development department, working on real-time decision making systems to identify the most appropriate driving maneuver to be performed in a given traffic situation, using Image Processing and Machine Vision techniques.

MAHESTAN GAS COMPANY | SEO Manager
Sep 2017 – Sep 2018 | Tehran, Iran
- Used SEO techniques to drive targeted traffic to client's site while getting the site ranked for non-brand terms and increased first page targeted keywords over 100%.
- Redesign Company's main pages to achieve SEO-friendly pages for search engines better indexing.
- Led a team of content writers - to produce on-brand/SEO rich content for clients websites.
- Assigned related meta tags to all pages of the website to reach a good search experience for users.

MAHESTAN ENERGY COMPANY | Web Developer
Sep 2017 – Present | Tehran, Iran
Provided effective and functional web designs to the company that met their specific business/personal needs.
- Developed graphic images and effects to achieve design goals.
- Set up a private webhost for the company and run a database and mailserver on it.
- Performed routine updates, upgrades and overall maintenance of the website.
- Currently working on an user friendly admin panel to handle the content of the website.

TIS ACADEMY | Nationwide University Entrance Examination Consultant
Sep 2014 – May 2017 | Tehran, Iran
Utilized a consultative approach with sharing own experiences to prepare students for the nationwide entrance examination.
- Strategize a road map to find flexible solutions to further the pre-university students' education.
- Assisted pre-university students with completing program objectives through coaching, mentoring and creating effective goal action plans.
- Held several seminars with the help of academy for the pre-university students to share experience and answer their questions.

HONORS AND AWARDS

NATIONWIDE ENTRANCE EXAMINATION (KONKUR) | Ranked 5th

2014 | Tehran, Iran

Ranked 5 in the nationwide entrance examination (Konkur), in Technical and Mathematics Sciences examination group in the whole country among 191466 participants. By this mean I became a member of into Iran's National Elites Foundation.

TEST SCORES

TOEFL IBT

Overall 106/120

October 2018 | Tehran, Iran

Reading: 28/30
Listening: 29/30
Speaking: 22/30
Writing: 27/30

GRE

November 2018 | Tehran, Iran

Verbal Reasoning: 143/170 - 20th percentile
Quantitative Reasoning: 169/170 - 96th percentile
Analytical Writing: 4/6 - 59th percentile

ADDITIONAL INFORMATION

NOTABLE PROJECTS

3D Real-time First Person Game
Project for Computer Graphics course, implemented in WebGL.

Snake and ladders web-based game
Project for Web Development course, implemented in Expressjs and Parsplatform for the back-end and Reactjs for the front-end.

Online Payment Website
Project for Systems Analysis & Design Methods, implemented in Expressjs and Parsplatform for the back-end and Reactjs for the front-end.

Real-time Tower Defense Game
Project for Advanced Programming course, implemented in JAVA.

FPGA-based TRAX game
Project for Digital Systems Design course, implemented in Verilog.

5-Stage Pipeline Architecture
Project for Computer Architecture course.

RELATED COURSE WORK

- Advanced Information Retrieval
- Artificial Intelligence
- Linear Algebra
  will be taken next semester.
- Data Structures & Algorithms
- Digital Image Processing
- Database Design
- Engineering Probability & Statistics
- Web Programming
- Computer Networks
- Computer Graphics

LANGUAGES

PROGRAMMING

Over 5000 lines:
Java • Python • JavaScript • C++/C • React • ReactNative • HTML • CSS
Over 1000 lines:
PostgreSQL • Verilog • PHP • Assembly • LaTeX • MATLAB • OpenGL
Familiar:
iOS • Android • MySQL

SPOKEN & WRITTEN

Native:
Persian
Fluent:
German, English

RESEARCH INTERESTS

Machine Learning, Autonomous Systems, Data Mining, Process Mining, Machine Vision, Image Processing.