

**Full Name:** [Mohammad](#) Jalili Torkamani

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## EDUCATION

**Ph.D. in Computer Science**

Jan 2024 – Now

**Location:** University of Nebraska-Lincoln (UNL), Lincoln, Nebraska, The United States

**Supervisor:** Prof. Purandare

**B.Sc. in Computer Engineering (GPA: 3.22/4.0)**

Sep 2016 – Sep 2020

**Location:** K. N. Toosi University of Technology (KNTU), Tehran, Iran

**Thesis Title:** Restaurant Table and Food Reservation System on Android Platform (Lexeen)

**Supervisors:** Dr. Saeed Farzi, Dr. Farnaz Sheikhi

## RESEARCH INTERESTS

- Computer Science
- Machine Vision and Image Processing
- Software Development
- Project Management

## WORKING EXPERIENCES

**Research Assistant**

Jan 2024 – Now

**Location:** The University of Nebraska-Lincoln (UNL), Lincoln, Nebraska, The United States

Working as a Software Engineering Research Assistant (RA) under supervision of Prof. Purandare

**Software Project Manager**

Jan 2022 – Mar 2022

**Location:** [Vantage Global Solutions Company, Ontario, Canada](#) - Remote

Managing software team consists of backend and frontend developers by using various project management methodologies including Agile and Waterfall to create a web panel to interact with invented smart tiles

**Software Project Manager**

Apr 2022 – Jul 2022

**Location:** Arzyaban Salamat Pars Company, Tehran, Iran

Managing React and ASP.NET developers by using agile project management methodology to create a web application used by the company's customers.

**Software Project Manager**

Jan 2022 – Mar 2022

**Location:** [Vantage Global Solutions Company, Ontario, Canada](#) - Remote

Managing software team consists of backend and frontend developers by using various project management methodologies including Agile and Waterfall to create a web panel to interact with invented smart tiles

**Robotic Project Manager**

Dec 2020 – Mar 2021

**Location:** [Vantage Global Solutions Company, Ontario, Canada](#) - Remote

Managing multiple robotics and software teams by using appropriate project management methodologies including

Agile and Waterfall to create an innovative stroller

**Android Developer**

Jul 2020 – Aug 2020

**Location:** Ertegha Salamat Pasargad Company, Tehran, Iran

Development of two Android applications for technical staffs as well as the Insurance centers

**Android Developer**

Oct 2018 – May 2020

**Location:** Medreek (Ayandeh Sazan) Publications, Tehran, Iran

Development of an Android application to provide the students with intelligent studies planning by AI

## TEACHING EXPERIENCES

**Teaching Assistant of Advanced Programming (Java)**

Sep 2017 – Feb 2018

**Location:** K. N. Toosi University of Technology

**Professor:** Dr. Mehdi Esnaashari

**Teaching Assistant of Fundamentals of Programming (C/C++)**

Feb 2017 – Aug 2017

**Location:** K. N. Toosi University of Technology

**Professors:** Dr. Amin Nikanjam, Dr. Behrooz Nasihatkon

## PROJECTS

- **Restaurant Table and Food Reservation System:** Android application to reserve a restaurant table and the meals or deliver the food, with a web-based panel, Bachelor's thesis
- **Face Emotions Detector:** Face emotions detector in real-time, using CNN and python under Keras library, Fund. of Computer Vision course
- **AR Hitting Ball:** Graphical desktop game in which the players move a flat horizontally with their hands on a live camera to hit the blocks array with a ball, using python, under OpenCV and media-pipe libraries
- **STU-Assist Web Application:** An easy-to-use website (developed by ReactJS and PHP) to assist university applicants in their application process
- **Hamkhan Book Sharing Application:** Book sharing application, using React Native
- **Smart Tile:** Managing a software project by cooperating with specialists while applying the latest project management techniques in complexity, time, and cost to create a web panel to interact with invented smart tiles, Vantage Global Solutions Co.
- **TrekTot Smart Stroller:** Managing a robotic project by cooperating with specialists while applying the latest project management techniques in complexity, time, and cost to create a smart robotic stroller, Vantage Global Solutions Co.
- **Arzyaban Web application:** Managing a group of developers to create a web application to provide the company's customers with some corporate services, Arzyaban Salamat Pars Co.
- **ASPA Insurance applications:** Two android applications to provide company's staffs and insurance centers with internal services,

framework, Systems Analysis, and Design course

Ertegha Salamat Pasargad Co.

- **Sarmad Insurance Application:** Development of an Android app for calculating Sarmad insurance rate, under the supervision of Dr. Khasteh, Internship
- **Pitch frequency using Cepstrum Method:** Pitch frequency calculator of the vowel sounds using the Cepstrum method, MATLAB, Fund. of Speech and Language Programming course
- **Zuma Deluxe:** Graphical desktop game in which the player hits the colorful moving bubbles by the mouse click, using C++ under SFML library, Fund. of programming course
- **Medreek Smart Planning Application:** Android application for studies planning using AI to help students manage their time, Medreek Pub.
- **Touch Social Network Application:** Android application to organize social services with ticket sales and information services, self-Founded startup (Seeds)

## SKILLS

**Programming Languages:** Java/Kotlin, Python, C/C++, JavaScript, TypeScript, MATLAB, MySQL, HTML/XML, Assembly

**Operation Systems:** Linux (Ubuntu, Raspbian), Windows

**Technical Knowledge:** Software Development, Android Application Development, Machine Vision and Image Processing (OpenCV), Object-Oriented Programming, Design Patterns, Cryptography, Blockchain, Communication Protocols (TCP/UDP), Version Control System (Git), Unit Testing, Test Driven Development (TDD), Continuous Integration and Delivery (CI/CD), Shell Scripts, Project Management

**Software:** SQL plus, Cisco Packet Tracer, Wireshark, Trello, Jira, Microsoft Office, Google Suite

**Personal:** Team working, Teaching Assistance, Communication, Presentation

## MAIN COURSES

- Fundamentals of Computer Programming: 20/20
- System Analysis & Design: 18.26/20
- Advanced Programming: 17.69/20
- Databases Lab: 20/20
- Fund. of Speech and Language Processing: 19.70/20
- Operation Systems Lab: 20/20

## AWARDS & HONORS

- Ranking within the **top 1%** among more than **162,000** participants in Iran's national university entrance examination (Konkur), Aug 2016
- Receiving a **full scholarship** from K. N. Toosi University of Technology (Tuition waiver)
- Participation in **Machine Vision challenge** at the ICT innovation center held by Sharif University and developed an information extractor android application from the bank cards, Sep 2018
- Participation in **Java-Cup challenge** held by Shahid Beheshti University, Oct 2017
- **Writer of Supplementary Reading Book** in Persian Literature (11<sup>th</sup> grade) published by Medreek Publications,

Feb 2019 (ISBN: 978-964-339-104-1)

## LANGUAGES

- **Persian:** Native
- **English:** Proficient (C1 | IELTS: 7.0)

## CERTIFICATES

<i>Neural Networks and Deep Learning</i>	Apr 2023
<i>Introduction to Cloud Computing</i>	Dec 2022
<i>Python for Data Science AI and Developers</i>	Dec 2022
<i>AI for Everyone</i>	Nov 2022
<i>Kotlin for Java Developers</i>	Dec 2021
<i>Python for Beginners</i>	Dec 2021
<i>Project Management Foundations: Budget</i>	Sep 2021
<i>Agile Project Management</i>	Aug 2021
<i>Foundations of Project Management</i>	Jul 2021
<i>Introduction to Marketing</i>	Jan 2021
<i>Business Fundamentals: Project Management</i>	Nov 2020
<i>Development with Java</i>	Sep 2019
<i>Development with JavaScript</i>	Sep 2019
<i>Image Processing in Robotics</i>	Jun 2017

## REFERENCES

**Dr. Saeed Farzi** ([saeedfarzi@kntu.ac.ir](mailto:saeedfarzi@kntu.ac.ir))  
Assistant Professor at K. N. Toosi University of Technology

**Dr. Seyed Hossein Khasteh** ([khasteh@kntu.ac.ir](mailto:khasteh@kntu.ac.ir))  
Assistant Professor at K. N. Toosi University of Technology

**Dr. Nima Khadem Mohtaram** ([nkhadem@uwaterloo.ca](mailto:nkhadem@uwaterloo.ca))  
Lecturer at University of Waterloo  
Co-founder and Managing Director at Vantage Global Solutions Co. - Toronto, ON