

# Kianosh Arian

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING, · UNIVERSITY OF TEHRAN, TEHRAN, IRAN

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## Education

### University of Tehran

Tehran, Iran

B.S. IN COMPUTER ENGINEERING

Sep. 2019 - Jun. 2024

- GPA: 16.98/20 (3.57/4) · Top 20% of Graduates
- Related Courses: Discrete Mathematics(4/4) · Data Structures and Algorithms(4/4) · Artificial Intelligence(4/4) · Distributed computing(4/4) · Parallel Programming(4/4) · Database Design(4/4) · Compiler design and programming languages(4/4) · Internet Engineering(4/4)

### National Organization for Development of Exceptional Talents (NODET)

Tehran, Iran

DIPLOMA IN MATHEMATICS AND PHYSICS

Sep. 2016 - Jun. 2019

- GPA: 19.15/20 (4/4)

## Research Interests

- Software Engineering
- Data Science / ML
- Applied AI
- Software Systems
- Intelligent HCI Systems
- Game Development

## Publications

### Effect of Short-Form Videos on Student Attention

2024

M. MAHMOUDI, F. TAGHIYAREH, **K. ARIAN** (2024). INTERNATIONAL SYMPOSIUM ON TELECOMMUNICATIONS (IST)

- An **Eye-Tracking Study** Using **Computational Neuroscience Methods** to Measure The Effect of Short-Form Entertainment Videos on Student Learning and Cognition
- Paper Accepted, Will be Indexed at IEEE After the Conference Date
- Contributed as: Idea Proposer, Literature Review, Data Analysis, Collaboration in Writing the paper, and Presenter at the IST Conference
- Will Also be Presented by Dr. Taghiyareh as One of the **Keynote Speeches** at the 5TH International Conference on Social Studies in Health at Shiraz University of Medical Sciences (SUMS) Nov 6TH, 2024

## Research Experience

### Research Assistant in Modeling Large-Scale Social Behaviors

University of Tehran

TELAB, PROF. FATTANEH TAGHIYAREH

Feb. 2024 - Apr. 2024

- Conducted Literature Review in Preparation of the Opening Speech for **ICWR-2024** on **User Modeling**
- Notable Studied Topics:
  - **Predicting Election** and **Poll Result** By **Classification** of Twitter Users' Activity
  - **Agent Based Modeling** of Opinion Formation in Society Based on Human Psychological Traits
  - **Simulating Human Driving Behavior** in Traffic

### Research Assistant in Computational Cognitive Science

University of Tehran

E-LEARNING LAB, PROF. FATTANEH TAGHIYAREH

Jan. 2024 - Present

- Studying the Effect of Short-Form Entertainment Videos on Student Learning and Cognition
- Analysis of Student **Neurophysiological Data (Eye-Tracking)** e.g. **Fixation Count** and **Pupil Diameter** to Assess Learning Performance
- Employing a **Pretest-Posttest** Approach to Study the Effect of Short-Form Videos (eg. TikTok) on Learning

## Work Experience

### Teamyab

Tehran, Iran

TECHNICAL PRODUCT MANAGER

Mar 2023 - present

- **Coordinating** and **Facilitating Communications** Between Technical Teams and **Hosting Sprint Planning** Meetings.
- **Research and Implementation** of the Newest Available AI Tools for Market Application, Such as **Fine-Tuned Language Models**, Speech-to-Text, and Text-to-Speech Tools for the Persian Language, OCR Tools and Training on new Fonts and etc.
- Designing **AI Solutions Aimed at Enhancing the HR Industry**, Such as Intelligent Companion for **Employee Onboarding**, **Automated Job-Description** and **KPI/OKR Generator**, and **Interview Assistant**.

## Teamyab

FRONT-END DEVELOPER

Tehran, Iran

Jun 2022 - Mar 2023

- Developing **Responsive** and User Friendly Websites Using Next.js and **Modern Front-End Practices**.
- Skills: Next.js . Sass . Redux . Axios . TypeScript . REST API . Agile Methodology

## Teaching Assistant

### Introduction to Computing Systems and Programming Lab

TEACHING PROGRAMMING CONCEPTS AND SUPERVISING LAB SESSIONS

Fall 2021

### Introduction to Computing Systems and Programming

DESIGNING QUESTIONS AND AUTOMATED TEST CASES

Fall 2020

## Notable Academic Projects

### Animal Image Classification Using Neural Networks

USING **TENSORFLOW AND KERAS** TO CREATE A NN MODEL, **OPTIMIZING PERFORMANCE** WITH OPTIMIZERS, EPOCHS, AND REGULARIZATION, EXPERIMENTING WITH DROPOUT, EARLY STOPPING, AND L2 REGULARIZATION TO **PREVENT OVER-FITTING**

### Optimized Parallel Computing

USING PARALLEL PROGRAMMING TOOLS SUCH AS **SIMD, POSIX, OPENMP, AND CUDA** TO OPTIMIZE DEMANDING COMPUTATIONS SUCH AS **IMAGE PROCESSING AND MATH OPERATIONS** ON LARGE DATASETS

### Github Oauth 2.0

IMPLEMENTING A FASTAPI APPLICATION FOR **GITHUB OAUTH AUTHENTICATION**

### Bank Facility Telegram Bot

DEVELOPING A TELEGRAM BOT USING **NESTED HANDLERS** WITH **PERSISTENT DATA STORAGE** TO GATHER CUSTOMER INFORMATION AND AUTOMATICALLY NOTIFY FACILITY OWNERS

### Baloot

AN ONLINE SHOPPING WEBSITE DEVELOPED IN **JAVA AND REACT**, WITH **AUTOMATED TESTING** (JUNIT), FULLY FUNCTIONAL

## Awards and Extracurricular

AWARDS AND EXTRACURRICULAR ACTIVITY

- Ranked 126th (top 0.1%) in Nation-wide Iranian University Entrance Exam in Mathematics and Physics Among 165,000 Participants , June 2019
- Participated in the AUT Gamecraft (Game Jam Competition with Unity) and Ranked 6th
- Participated in the National Front-end Engineering Competition and ranked 11th out of 250 teams

## Skills

PROGRAMMING LANGUAGES (ADVANCED LEVEL)

- C/C++ . JavaScript . Python . HTML/CSS

PROGRAMMING LANGUAGES (INTERMEDIATE LEVEL)

- Java . TypeScript . R . SaSS . SQL . Verilog . C# . MongoDB

FRAMEWORKS AND TOOLS

- Unity . Pandas . TensorFlow . React . Next.js . Spring Boot . GIT . Docker . MakeFile . Figma

## Languages

**English**, Full Professional Proficiency (**IELTS 8.5/9**)

**Farsi**, Native

**Arabic**, Basic