

Amirhossein Shirzad

CONTACT INFO

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EDUCATION

- Oct 2020 - Nov 2021 - **Coursework in Artificial Intelligence**,
University of Galway, Galway, Ireland
Completed a structured training program comprising supervisor-initiated research-specific training in artificial intelligence methods for 5 ML topics: Transparent AI, Visual Media Processing, NLP, Personalisation, Optimisation
- Sep 2016 - Oct 2020 - **M.Sc. in Information Technology Engineering – Multimedia Systems**,
University of Tehran, Tehran, Iran
Thesis: “Deep learning approach for image and text sentiment analysis”
Abstract: We propose a multimodal sentiment analysis model to determine the sentiment score for any incoming tweet, i.e., image, text, GIFs and memes.
Supervisors: Dr. Hadi Zare, Dr. Mehdi Teimouri
GPA: 17.00/20
- Sep 2008 - Jul 2013 - **B.Sc. in Computer Science**, *University of Tehran*, Tehran, Iran
Thesis: “E-voting system for Iranian Parliament”
Supervisor: Dr. Marzieh Asna Ashari
GPA: 14.39/20

EXPERIENCE

- Jul 2023 - Present - **Software Engineer**, *Polwinno innovation center*
Utilizing the capabilities of data science, AI, and data visualization to craft innovative AR/VR applications that deliver immersive and intelligent digital experiences.
- Jun 2017 - Aug 2020 - **Software Developer**, *Center for IT and Cyberspace*, University of Tehran
Designed and developed the Android application for the University of Tehran’s official mobile app using Java and Kotlin.
Designed and developed REST APIs and PostgreSQL database for the official mobile app for the University of Tehran, using Django.
- Mar 2014 - May 2017 - **Android Developer**, *Raadwin*
Implemented several Android mobile applications for different companies:
 - *UT App*: Official mobile app for the University of Tehran
 - *Football Sticker*: An entertaining application for taking photos using stickers
 - *YaadYaar*: An event organizer and reminder android application
 - *Mr Albaloo*: A multi-player word puzzle game developed for Android
- Apr 2013 - Feb 2014 - **Software Developer**, *PulseWare*
Implemented and maintained an automated data miner for ATM monitoring software using C#, ASP.NET, and SQL Server.

SKILLS

Programming Languages: Python, Java, Kotlin, C#, MATLAB, PostgreSQL
Software and Tools: Android Studio, PyCharm, Unity, Unreal Engine, GIT
Exploratory Data Analysis: Numpy, Pandas, seaborn, Matplotlib, Plotly, JupyterLab
Machine Learning: Keras/Tensorflow, PyTorch, scikit-learn
API Development: REST w/ Django REST framework

INTERESTS

- Exploratory Data Analysis
- Applied Machine Learning
- Virtual and Augmented Reality
- Data Analysis
- Game Development
- Computer Vision

PUBLICATIONS

- 2020 **Shirzad, Amirhossein**, Hadi Zare, and Mehdi Teimouri. "Deep Learning approach for text, image, and GIF multimodal sentiment analysis." 2020 10th International Conference on Computer and Knowledge Engineering (ICCKE). IEEE, 2020.

HONORS AND AWARDS

- 2017 Awarded top student project for **UT App**, Second Annual meeting for introducing latest IT achievements, University of Tehran.
- 2016 **Ranked 1st**, 3rd *Fanavard Nationwide Competition in Open-source Intelligence (OSINT)*, Sharif University of Technology, Tehran.

AFFILIATIONS, MEMBERSHIPS

- 2017-2020 Head of Mobile App Development Team, *Center for IT and Cyberspace*, University of Tehran
- 2017-2020 Member of the Mobile Committee, *Center for IT and Cyberspace*, University of Tehran

SELECTIVE COURSES

- Graduate: Animation and 3D Animation, User Interface Design, Multimedia Systems, Advanced Computer Graphics, Software Development Management, Digital Image Processing
- Undergraduate: Numerical Linear Algebra, Algorithms Design, Fundamentals of Software Design, Mathematics for Computer Science, Cryptography, Artificial Intelligence, Theory of Computation

REPRESENTATIVE COURSE PROJECTS

- 2016 *A 360° image viewer of Iran tourist attractions using Unity and Google cardboard*
University of Tehran | Supervisor: Dr. Hamid Reza Ahmadi
- 2016 *Implementing solar system using C++ and OpenGL*
University of Tehran | Supervisor: Dr. Nadian Ghomshe
- 2011 *Art store management software*
University of Tehran | Supervisor: Mr. Naghib Zadeh Mashyekh

LANGUAGES

- ENGLISH: **Duolingo English Test:** 130 - Test Date: 03 Dec 2023
TOEFL iBT: 106/120 (R: 30, L: 28, S: 22, W: 26) - Test Date: 01 Jun 2019
- PERSIAN: Native

HOBBIES AND ACTIVITIES

- Sports: Soccer, Swimming
- Leisure: Reading, Playing Video Games

REFERENCES

References are available upon request.