



Erfan Asadi

Software Engineer

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Professional Experience

2023 – Present
Dubai, UAE

Frontend Tech Lead & AI Agent Developer (Remote), *troweb* 🔗

- Led frontend development for Troweb, an AI-powered multi-agent web app offering users a personal data workspace.
- Managed a remote team of 4 engineers, ensuring high-quality code and seamless user experience.
- Developed and integrated AI agents to automate and enhance data-related tasks.
- Collaborated with backend and AI teams to deliver advanced, scalable features.

Technologies: LangChain, LangGraph, python, Typescript, React-Router, Node.js, MongoDB

2021 – 2023
Dubai, UAE

Frontend Developer (Remote),

DoExam – AI-powered Online Testing Platform 🔗

- Developed a large-scale online testing platform for K12 students, leveraging AI agents to enhance assessments and personalize learning.
- Designed and implemented core features using TypeScript, GraphQL, React, Node.js, and MongoDB.
- Ensured scalability and reliability to support 500k students in a single exam.
- Collaborated with cross-functional teams to deliver a robust, user-friendly product.

2019 – 2021
Tehran, Iran

Web Application Developer, *Lernito, Avid Arvand Technologies Company* 🔗

- Designed and developed an integrated online class system, question bank, and testing platform for K12 students.
- Led the app's release on Google Play, expanding user accessibility.
- Built scalable, efficient solutions using LiveScript, React, Node.js, and MongoDB.
- Collaborated with a multidisciplinary team to ensure seamless user experience and robust performance.

Last Projects

Ashti Academy 🔗

- Built a scalable marketplace for audio/video courses with secure HLS streaming.
- Integrated AI for personalized recommendations, automated tagging, and smart search.
- Developed with Strapi + Node.js for flexible, API-driven content management.

Low Complexity Blind Video Quality Assessment

Developed a low-complexity, deep learning-based system for blind video quality assessment using Python, PyTorch, and CUDA. Utilized OpenCV for video processing and Scikit-learn for model evaluation, achieving accurate, real-time quality predictions with minimal computational resources.

React Type Writer

A simple, lightweight, and elegant type write effect for React applications.

Education

2021 – 2023 Tehran, Iran	Master of Science in Artificial Intelligence, University of Kharazmi <ul style="list-style-type: none">Focused on designing deep AI models as well as learning classical and traditional machine learning models.Thesis: "Low Complexity Blind Video Quality Assessment"GPA: 17.21/20
2016 – 2020 Gilan, Iran	Bachelor of Science in Computer Engineering, University of Guilan <ul style="list-style-type: none">Acquired comprehensive knowledge in computer concepts, programming both hardware and software, and advanced mathematics to enhance understanding of algorithm development.Graduated as an Outstanding StudentFinal Project: "Extract Metadata from Academic Papers"GPA: 17.38/20

Certificates

• Professional Certificate in Deep Learning	• Computer Vision and Image Processing
• Deep Learning with Tensorflow	• Deep Learning with PyTorch
• Git and GitHub	• Image and Video Processing: From Mars to Hollywood with a Stop at the Hospital

Key Skills

• AI Solutions	• AI Agent Development
• Local LLM Deployment	• Scalable Web Application Architecture
• Team Leadership & Mentoring	• Remote Working & Distributed Team Collaboration
• React, Next.js & React-Router	• Python & TypeScript
• LangChain & LangGraph	• PyTorch & TensorFlow
• Model Optimization & Inference	• Agile Development
• Cross-functional Collaboration	

Publications

2025	The Role of Fine-Tuned Feature Map Correlation in Video Quality Assessment, IPRIA 2025 <u>Best Paper Award at IPRIA 2025</u>
2024	NTIRE 2024 quality assessment of AI-generated content challenge, Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition

Teaching Assistants

- 09/2022 – 06/2024 **Neural Networks, Kharazmi University**
• Supervisor: Dr. Azadeh Mansouri (a_mansouri@khu.ac.ir [↗](#))
- 09/2018 – 02/2019 **Algorithm Design, University of Guilan**
• Supervisor: Dr. Mojtaba Shakeri (mojtaba.shakeri@gmail.com [↗](#))
- 09/2017 – 06/2019 **Advanced Programming, University of Guilan**
• Supervisor: Dr. Seyed Abolghasem Mirroshandel (mirroshandel@guilan.ac.ir [↗](#))
- 09/2018 – 02/2019 **Automata and Machine Theory, University of Guilan**
• Supervisor: Dr. Seyed Mohammadhossein Shekarian (shekarian@guilan.ac.ir [↗](#))
- 01/2018 – 06/2018 **Digital Circuits, University of Guilan**
Supervisor: Dr. Mahdi Aminian (mhd.aminian@gmail.com [↗](#))

Languages

English – Fluent

Persian – Native/Bilingual