



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), <i>DoExam – AI-powered Online Testing Platform</i> ⚡ • 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 ↗

- 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

- Acquired comprehensive knowledge in computer concepts, programming both hardware and software, and advanced mathematics to enhance understanding of algorithm development.
- Graduated as an Outstanding Student
- Final Project: "Extract Metadata from Academic Papers"
- GPA: 17.38/20

Certificates

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

Key Skills

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

Publications

- 2025 **The Role of Fine-Tuned Feature Map Correlation in Video Quality Assessment, IPRIA 2025 ↗**
Best Paper Award at IPRIA 2025
- 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