

Erfan Khadem

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An Electrical Engineering student looking for research opportunities

Education



Bachelors of Science in Electrical Engineering

SHARIF UNIVERSITY OF TECHNOLOGY

2022 - 2026

Tehran, Iran

- Courses: Realtime Embedded Systems | Operating Systems | Cryptography | Advanced Programming



Highschool Diploma in Physics and Mathematics

DASTGHEIB 1 HIGHSCHOOL OF SHIRAZ

2019 - 2022

Shiraz, Iran

- Shahid Dastgheib 1 highschool is under the supervision of NODET, National Organization for Development of Exceptional Talents, and is the most prestigious highschool in south of Iran

Professional Experience



Embedded Hardware and Backend Developer

HOME AUTOMATION PROJECT AT NATIONAL ELITES FOUNDATION

2023 - Present

Tehran, Iran

- Lead a team of computer security experts, electrical engineers and developers to build home automation appliances and smart gateways using TI's Zigbee chips and Espressif System's ESP32 and ESP8266 microcontroller series
- Guide our team to implement Test-Driven Development practices and integrate solutions produced by other teams in our product.
- Coordinate efforts between our team members and set goals and deadlines according to our timeline.



Fullstack Developer and Systems Administrator

ABARKELAS

2022 - 2023

Tehran, Iran

- Develop Django backend using django-rest-framework
- Fix bugs and improve UX at our frontend using SSR and Vue.js
- Improve monitoring and alerting for our backend systems
- Implement self-healing procedures for our backend systems
- A/B test our user base to guide our product development process



Fullstack Developer and Systems Administrator

NIROUTRANS CO.

2020 - 2022

Shiraz, Iran

- Complete development of an advanced monitoring system for Niroutrans' solar power plant, the biggest roof-mounted solar power plant in Iran
- Design advanced data visualization for our power plant monitoring system
- Design and implement online product documentation center to improve our customers' experience

Projects & Associations

Volunteer Data Analyst

ABC NONPROFIT ORGANIZATION

2019 - Present

New York, NY

- Analyze donor and fundraising data to identify trends and opportunities for growth
- Create data visualizations and dashboards to communicate insights to the board of directors
- Collaborate with other volunteers to develop and implement data-driven strategies
- Provide regular data analysis reports to the board of directors and executive leadership

Certificates

- 2022 AWS Certified Security, Amazon Web Services (AWS)
- 2017 Applied Data Science with Python, Coursera
- SQL Fundamentals Track, Datacamp

Skills

Languages English | French | Chinese

Tech Stack Tableau | Python (Pandas/Numpy) | PostgreSQL

Personal Interests Swimming | Cooking | Reading