Erfan **Khadem**

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An Electrical Engineering student looking for research oppurtunities

Education

Bachelors of Science in Electrical Engineering	*2022 - 2026*
Sharif University of Technolog	*Tehran, Iran*

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

Highschool Diploma in Physics and Mathematics	*2019 - 2022*
Dastgheib 1 Highschool of Shiraz	*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	*2023 - Present*
Home Automation Project at National Elites Foundation	*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	*2022 - 2023*
Abarkelas	*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	*2020 - 2022*
Niroutrans Co.	*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	*2019 - Present*
ABC Nonprofit Organization	*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

2021	**Scientific Computing with Python**,	Free Code Camp
2021	**Responsive Web Design**,	Free Code Camp
2021	**Javascript Algorithms and Data Structures**,	Free Code Camp

Skills

Languages	English	Persian	Arabic (basic)
Tech Stack	JS (Svelte/Vue.js)	Python (Pandas/Numpy/Django)	Rust	Go	C/C++ (HW/RTOS/Linux)
Hobbies	Mathematics	Cryptography	Bicycle	Electronics