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.
- Technologies:
  - FreeRTOS
  - Websocket
  - Nodejs
  - Embedded Linux
  - Svelte

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
- Technologies:
  - Django REST Framework
  - Vue.js
  - Docker
  - Redis
  - Postgres
  - Grafana + Prometheus

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
- Technologies:
  - Microsoft SQL Server
  - Redis
  - Bootstrap 4 & 5
  - Modbus TCP
  - Protobuf
  - Nginx

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  NTC SOLAR

  - Dashboard
  - Database
  - Detailed View

  NTC Solar Plant Overview

  ## Dashboard

  Latest data refresh: 4:41:44 PM

TOTAL POWER	TOTAL(YEAR) ENERGY	TODAY ENERGY	CO2 SAVINGS
67.921 KW	8681(2798) MWH	6524.87 KWH	6076.78 Tons

  Power Output

  Power (W): 1,200,000 / 1,000,000 / 800,000 / 600,000 / 400,000 / 200,000 / 0

  Time: Nov 02 — 06:00 — 12:00

  06:00 — 12:00

  GenAE — GenAW — GenF — GenC — GenBW — GenBE

  Total

  Generators' Power Share

  GenBE: 1.6%
  GenBW: 5.6%
  GenAE: 7.3%
  GenAW: 15.9%
  GenC: 44.6%
  GenF: 25.0%

  | GenAE | 7.3% | GenAW | 15.9% | GenF | 25.0% |
  | GenC | 44.6% | GenBW | 5.6% | GenBE | 1.6% |

PANEL TEMPERATURE	IRRADIANCE	ENVIRONMENT TEMPERATURE
22.17	40.33	34.4

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