# Sina Mehdipoor Omrani

Software Engineer • Computer Hobbyist

huzwares.github.io | sina.omrani@hotmail.com | linkedin.com/in/sina-omrani/

Seasoned software engineer with 10+ years of experience in microprocessor programming, embedded systems, IoT, full-stack web development, and developing CLI tools. Advanced degrees in AI & Robotics and Computer Software Engineering. Skilled in multiple programming languages and tools, adept at leading teams, managing projects, and enhancing system efficiencies. Currently working on machine learning frameworks.

## **EDUCATION**

## Babol Noshirvani University of Technology 2

Master of Science in Artificial Intelligence & Robotics 2023 – present | Babol, Iran

## Islamic Azad University, South Tehran Branch

Bachelor of Science in Computer Software Engineering 2019 – 2021 | Tehran, Iran

## Shomal University 🛮

Associate in Computer Software Engineering 2009 – 2011 | Amol, Iran

## **SKILLS**

## **Programming languages**

Rust, Python, C++(Arduino/espressif), PHP, JavaScript/TypeScript, Assembly(8051/AVR)

#### **Databases**

MariaDB/MySQL, PostgreSQL, Redis, MongoDB

#### Tools

Zsh/fish, Coreutils, Git, Neovim/Helix, Trello

#### Other

Scientific Python, Machine learning, Machine vision, WordPress, GIMP, Inkscape, AutoCAD

## PROFESSIONAL EXPERIENCE

## NikLink Agency

**Technical Director** 

2023 - 2024 | Tehran, Iran

- Led the development and implementation of CRM services, improving customer satisfaction by 50% and increasing sales by 20%.
- Directed the restructuring of multiple software architectures and internal tools, enhancing efficiency by 30%.
- Managed a geographically dispersed team of several engineers, ensuring seamless collaboration and project delivery.

#### Sabalan Tajhiz

2021 - 2022 | Tehran, Iran

**Embedded Software Engineer** 

- Designed and developed control panel software for a medical centrifuge using C, reducing setup time by 40% and improving operational efficiency.
- Implemented functionalities such as parameter setting, performance monitoring, real-time data display, and user input handling, which enhanced user experience and reduced error rates by 30%.
- Executed thorough testing, debugging, and integration with hardware components, achieving a 99.9% reliability rate and ensuring compliance with safety standards.
- Developed with future features in mind, maintaining version control and writing technical specifications to support ongoing enhancements.

## CanSell 🛮

2016 - 2019 | Shiraz, Iran

Web Developer

- Designed and implemented user-friendly interfaces for web and mobile applications, resulting in a 30% increase in user engagement.
- Performed manual testing to ensure high-quality standards, resulting in significantly fewer bug reports.
- Optimized back-end code for enhanced performance, reducing load times by 20% and improving scalability.

- Contributed to a user growth rate of 50% during my tenure.

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Research Assistant

- Worked under the supervision of Dr. Hossein Vahabie on two research projects:
  - · Investigated the impact of oxytocin on human observational learning.
  - Examined the interplay between individuals with attention deficit disorder and unaffected individuals.
- Assisted in data collection, analysis, and interpretation.
- Maintained accurate records and documentation of experimental procedures and results.

### Freelance Web Developer

2011 - 2015 | Tehran, Iran

- Designed and deployed custom websites for clients using emerging technologies and web development tools.
- Created responsive and user-friendly interfaces that met client requirements.
- Redesigned existing websites to enhance functionality, usability, and visual appeal while optimizing them for search engines, achieving a 35% improvement in search engine rankings.
- Created custom frameworks for efficient future project development, reducing development time by 30%.
- Utilized popular Content Management Systems (CMS) like WordPress, Drupal, and Ghost, customizing them to meet client needs.
- Collaborated closely with clients, providing regular updates and communication throughout the development process, maintaining a 90% client retention rate.
- Conducted thorough testing and debugging to ensure high-quality, reliable, and efficient websites, reducing post-launch issues by 60%.
- Managed website hosting and domain registration, ensuring security, speed, and accessibility for visitors.

### **HONORS & AWARDS**

## 2nd place, RoboCup IranOpen

IranOpen Committee 2009

## Runner up, Khwarizmi Youth Award (KYA)

Iranian Research Organization for Science and Technology (IROST)

2008

### **VOLUNTEER EXPERIENCE**

Node.js ♂

Website team member 2016 – 2022 | Iran

# The society for defending of street and labor

children 🗹

Educator

2009 - 2010 | Tehran, Iran

## **LANGUAGES**

Persian | English

## COURSES

Full Stack open ☑ University of Helsinki

2022

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