## Sina Mehdipoor Omrani

Software Developer • Computer Hobbyist

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A software developer with over ten years of experience in different fields, from designing and implementing control algorithms in robotics and ARM microprocessor programming to Full Stack web development. He also worked in IPM (Institute For Research In Fundamental Sciences) and IranDoc (Iranian Research Institute for Information Science and Technology).

## **EDUCATION**

# Islamic Azad University, South Tehran Branch ☐ Bachelor in Computer Software Engineering

2019 - 2021 | Tehran, Iran

## Shomal University 🛮

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

## **SKILLS**

## **Programming languages**

Rust, Python, JavaScript/TypeScript, PHP, Assembly(8051/AVR), C++(Arduino/ESP32)

## **Databases**

MariaDB/MySQL, RxDB

## Web Development

HTML, CSS/SCSS, JavaScript/TypeScript

#### **Tools**

Git, Zsh/fish, Vim/Helix

## **PROFESSIONAL EXPERIENCE**

## Sabalan Tajhiz

Jan 2021 - Feb 2022 | Tehran, Iran

**Embedded Software Engineer** 

- Developed embedded software for a medical centrifuge control panel using C programming language.
- Collaborated with hardware engineers to ensure that the software and hardware components of the control panel were compatible and integrated seamlessly.
- Implemented user-friendly user interfaces for the control panel, making it easy for medical professionals to operate and monitor the centrifuges.
- Conducted testing and debugging of the control panel software to ensure it met quality and safety standards for medical devices.
- Developed and documented software requirements, specifications, and design for the control panel.
- Contributed to the maintenance and enhancement of existing software and firmware for other medical devices.

## Bazaz Tejart

Apr 2019 - Jan 2021 | Tehran, Iran

Software Developer

- Reviewed the current production line system, identified areas for improvement, and developed solutions to enhance system efficiency and productivity.
- Designed and developed an automated test system for the production line, ensuring that products were tested thoroughly and consistently to meet quality standards.
- Developed and maintained a control and monitoring system for the production line, providing real-time data and alerts to operators and management to improve decision-making and minimize downtime.
- Utilized programming languages such as Python and C to develop software solutions that automated processes, reduced errors, and improved system performance.
- Collaborated with cross-functional teams, including engineers, technicians, and management, to identify requirements, resolve issues, and ensure system integration and compatibility.
- Conducted thorough testing and debugging of the software to ensure that it met quality standards and was reliable and efficient in a production environment.
- Documented system requirements, specifications, and design, ensuring that the software was well-documented and easy to maintain.
- Trained operators and technicians on how to use the software and automated systems, ensuring that they were equipped to perform their job functions effectively and efficiently.

Sina Mehdipoor Omrani 1/2

#### Web Developer

- Designed and implemented web interfaces for web and mobile applications, ensuring a user-friendly and visually appealing experience for users.
- Utilized HTML, CSS, JavaScript, and other web development tools to develop responsive and interactive web interfaces
- Conducted manual testing of web and mobile applications, ensuring that they met quality standards, and identified and resolved defects in a timely manner.
- Worked closely with project managers, designers, and other developers to ensure the timely delivery of high-quality web application.
- Optimized the back-end code to improve application performance, reduce load times, and ensure that the application could handle large volumes of data and traffic.
- Utilized PHP to develop efficient and scalable back-end code that integrated seamlessly with the web interface.
- Documented application requirements, specifications, and design, ensuring that the software was well-documented and easy to maintain.
- Participated in code reviews, design reviews, and other quality assurance activities to ensure software quality and compliance with industry standards and best practices.

#### Institute for Research in Fundamental Sciences 77

Jul 2015 - Oct 2016 | Tehran, Iran

Research Assistant

- Under Dr. Hossein Vahabie's supervision regarding two different projects:
  - I the role of Oxytocin in human observational learning and
  - II the network differences between patients with ADHD and control subjects

#### Freelance Web Developer

Sep 2012 - Jul 2015 | Tehran, Iran

- Developed and deployed custom websites for clients, utilizing emerging technologies, techniques, and other web development tools to create responsive and user-friendly interfaces that met client requirements.
- Redesigned existing websites to improve their functionality, usability, and visual appeal, and optimize them for search engines.
- Created custom frameworks for web development projects, providing a streamlined and efficient development process for future projects.
- Utilized popular Content Management Systems (CMS) such as WordPress, Drupal, or Ghost to develop and deploy client websites, customizing them to meet client needs and specifications.
- Worked closely with clients to identify their needs and requirements, and provided regular updates and communication throughout the development process to ensure that their needs were met and their expectations were exceeded.
- Conducted thorough testing and debugging of websites to ensure that they met quality standards and were reliable and efficient in a production environment.
- Managed website hosting and domain registration for clients, ensuring that websites were secure, fast, and accessible to 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

## **LANGUAGES**

Persian | English

## **VOLUNTEER EXPERIENCE**

Node.js ☑

Website team member

2016 - 2022 | Iran

The society for defending of street and labor children  $\ \ \, \square$ 

Educator

2009 - 2010 | Tehran, Iran

## **COURSES**

Full Stack open 2022 🛮

University of Helsinki

2022