MOHAMMAD MAHDI AFSHAR

Senior Software Developer

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WORK EXPERIENCE

[REDACTED]

Tech Lead

📅 May 2025 - Present ⚲ London (Remote)

- REDACTED UNDER NDA

Following My Dreams

Carrier break

📅 May 2024 - May 2025 ⚲ @ Home

- took a year off from working on anything big, or in any big/small team, and tried learning new technologies
- i also tried to start my own startup and worked on a few personal projects that did not go as planned.

Coin Paprika

Senior Golang-Blockchain Developer (Part-time)

📅 Nov 2023 - May 2024 ⚲ Poland (Remote)

- Architected and implemented robust data collection systems in **Golang** for both **EVM** and **non-EVM** blockchain networks, ensuring comprehensive market data coverage across diverse protocols
- Designed and optimized a high-performance data storage solution using **ClickHouse**, enabling real-time analytics on terabytes of blockchain transaction data with sub-second query response times
- Developed seamless integrations with multiple **Decentralized Exchanges (DEX)**, implementing standardized APIs to normalize data from disparate sources while maintaining 99.9
- Created fault-tolerant microservices with comprehensive error handling and recovery mechanisms, ensuring continuous data flow despite network volatility in blockchain environments

Coretrix

Senior Software Developer (Part-time)

📅 May 2023 - May 2024 ⚲ Bulgaria (Remote)

- Using **HTML**, **CSS**, and **Javascript**, multiple single-page landing pages were deployed on platforms like Zoho, on behalf of Coretrix's partners like **OOKA**.
- Using an in-house developed ORM and web server to ensure optimal performance and reliability.
- Collaborated with their industry leading partners like **OOKA**, Coinpaprika, digikala, ...

Kheradmen

Lead Backend Developer - Full time

📅 MAY 2023 - MARCH 2024 ⚲ Tehran - Iran

- Implemented advanced vector database solutions (**Qdrant**, **PgVector**) to power Retrieval-Augmented Generation systems for legal AI applications, including Robovakil's intelligent legal assistant

BACKEND SKILLS

Golang Typescript Python PHP
Lua

Fiber Gin NextJS Django

REST Web Sockets Microservices
Unit tests

Redis PostgreSQL MySQL
MongoDB Couchdb

CLIENT SKILLS

React SwiftUI Flutter

OTHER SKILLS

Docker Kubernetes GCP/GKE
Agile - Scrum

LANGUAGES

Persian English

HOBBIES

Music Gaming Traveling

ENGLISH PROFICIENCY

IELTs Academic Test

Overall Test Score: 7.5

📅 April 2017

- Designed and deployed a comprehensive SSO infrastructure with **OpenID** integration, enabling seamless authentication across multiple partner platforms and internal projects
- Architected a scalable backend infrastructure for AI model deployment, creating an Edge Model system that reduced inference latency by 40
- Developed a modular chatbot framework with standardized APIs, allowing rapid creation of domain-specific AI assistants connected to various vector databases with minimal configuration

Lead Frontend Developer - Full time

📅 APRIL 2021 - MAY 2023   📍 Tehran - Iran

- Led frontend development for Robovakil, creating an intuitive chatbot interface, comprehensive admin dashboard, and user authentication flows using **TypeScript** and modern frontend frameworks
- Spearheaded development of CareStyle's cross-platform solutions, building responsive web applications and mobile apps that shared core business logic while maintaining platform-specific UI/UX best practices
- Implemented advanced user experience features including real-time updates, offline functionality, and adaptive layouts that significantly improved user engagement metrics across all platforms
- Managed a team of 5 frontend developers, establishing coding standards, review processes, and component libraries that accelerated development velocity by 35

Python Developer - Full time

📅 MARCH 2020 - APRIL 2021   📍 Tehran - Iran

- Developed a comprehensive data collection platform for AI training, featuring configurable scripts, automated validation systems, and metadata enrichment pipelines
- Created parameterized data collection workflows that enabled non-technical stakeholders to define data requirements through a simple interface, accelerating dataset creation by 60
- Implemented data quality monitoring tools that automatically flagged anomalies and bias in collected datasets, ensuring high-quality training data for machine learning models
- Built custom ETL pipelines to transform and normalize diverse data sources into standardized formats compatible with the company's machine learning infrastructure

Tamasack

Backend Developer - Laravel - Part-time

📅 2019 - 2021   📍 Karaj - Iran

- Architected and implemented a comprehensive VoIP integration system connecting Cisco infrastructure with custom-built call management software, enabling advanced call routing, recording, and analytics
- Developed an enterprise user hub that centralized authentication, permissions, and resource access across multiple internal applications, improving operational efficiency by 25
- Designed and deployed containerized solutions using **Docker** and **Kubernetes**, transitioning legacy systems to a microservices architecture that improved scalability and reduced deployment times by 70
- Built robust APIs in **Laravel/PHP** that standardized data flow between enterprise systems, allowing seamless integration of new services while maintaining backward compatibility
- Implemented automated deployment pipelines that reduced release cycles from days to hours while improving overall system reliability and recovery capabilities

SquidTech

Frontend Developer / UI Designer

📅 2017 - 2019   📍 Toronto, Canada

- Engineered an interactive kitchen countertop visualization tool using **Three.js**, allowing customers to create detailed 2D layouts and preview realistic stone textures before purchase, improving customer confidence and reducing return rates
- Developed a sophisticated cutting optimization algorithm that analyzed custom countertop designs to determine the most efficient slab cutting patterns, reducing material waste by approximately 15
- Designed and implemented a responsive invoice generation system that seamlessly converted customer designs into detailed quotes and final invoices, accelerating the sales cycle and improving accuracy of material estimates
- Built a mobile-responsive company website using **React**, featuring dynamic product catalogs and an intuitive UI that increased mobile conversions by 30

Azardata

Technical Operations Assistant - Part-time

📅 2016 - Present   📍 Tabriz, Iran

- Configured and maintained virtualization platforms including **KVM**, **Proxmox**, and **ESXi**, supporting scalable infrastructure growth that accommodated a 200 percent increase in customer base
- Implemented and managed web hosting control panels including **cPanel** and **DirectAdmin**, streamlining client onboarding and reducing support ticket volume by approximately 30 percent
- Architected and deployed containerized environments using **Docker** and **Kubernetes**, enabling rapid application deployment and improving resource utilization across hosting infrastructure
- Established automated monitoring and failover systems that maintained 99.9 percent uptime for critical client services while reducing manual intervention requirements
- Collaborated with the development team to design and implement custom hosting solutions for enterprise clients with specialized performance and security requirements

PROJECTS

Kubernetes Telegram Bot

Opensource Telegram Bot

📅 2025

- A Kubernetes Telegram Bot that provides secure, RBAC-controlled access to Kubernetes cluster operations via Telegram. Built with Go, using Custom Resource Definitions (CRDs) to store user permissions natively in Kubernetes.
- Kubernetes-Native RBAC: Permissions stored as CRDs in Kubernetes
- Fine-Grained Access Control: Control access by namespace, resource, verb, and label selectors
- Group Chat Support: Works in both private chats and Telegram groups with permission-based access
- Command Menu: Automatic command registration in Telegram UI
- Secure: Bootstrap admins, role-based permissions, selector enforcement
- Easy Deployment: Single binary, Docker image, Kubernetes manifests
- GitOps-Friendly: Permissions are version-controlled Kubernetes resources

AI Website Builder

builder.inja.online

📅 2025

- Natural language to code conversion with lightning-fast generation (2000+ tokens/second) and clean HTML output
- Real-time preview with chat-based interface, mobile-first responsive design, and instant deployment capabilities
- Cutting-edge AI integration using Cerebras API with SvelteKit architecture for optimal performance and user experience

Bargheman Bot

Simple Opensource Service

📅 2025

- Simple HTTP server that provides subscribable ICS calendar feeds for electricity blackout schedules in Iran.
- Barghman includes a gorgeous web interface built with **Tailwind CSS** and clean HTML templates!

Meshcat Pharmaceutical Company

Mobile App Development

📅 2023

- Architected and developed a centralized pharmaceutical data collection application that streamlined the workflow between field representatives and management
- Built a responsive frontend using **Next.js 14**, **shadcn/ui**, and **Tailwind CSS**, creating an intuitive interface that reduced data entry time by 40
- Implemented a multi-stage approval workflow that enabled company executives to review and authorize drugstore orders before fulfillment, reducing shipping errors by 35
- Integrated real-time synchronization that allowed field representatives to operate in areas with intermittent connectivity while maintaining data integrity

K.A.A. CRM

Enterprise Resource Management System

📅 2022

- Designed and implemented a comprehensive CRM for an import/export company using **Next.js**, **PostgreSQL**, **shadcn/ui**, and **Tailwind CSS**
- Engineered a sophisticated role-based access control system that segmented data visibility across departments (accounting, sales, logistics), enhancing data security
- Developed advanced import/export functionality supporting **XLSX** format with data validation, allowing seamless migration of legacy data
- Created custom reporting dashboards with real-time analytics that provided actionable business intelligence, reducing decision-making time by 50

Chartmind Neurashi

Financial AI Chatbot

📅 2022   📍 chartmind.neurashi.com

- Developed an advanced financial chatbot using **Next.js** that integrated natural language processing with financial data visualization
- Implemented custom rendering engines for real-time price charts and complex financial visualizations, enhancing user understanding of market trends
- Engineered API integrations with multiple financial data providers to ensure accurate, up-to-date information delivery
- Created an adaptive UI that optimized display of sophisticated financial data across mobile and desktop interfaces

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AntiSpamCR
Telegram Bot Platform

📅 2018

- Architected a scalable Telegram bot management platform that enabled users to create and customize their own moderation bots
- Developed advanced content filtering algorithms that achieved 97
- Implemented a user-friendly configuration interface that allowed non-technical administrators to customize complex rule sets
- Built a distributed architecture that supported thousands of concurrent bot instances with minimal latency

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Gapogeram
Telegram Bot

📅 2020

- Created a Telegram-based anonymous matching and chat platform similar to Tinder but with complete privacy preservation
- Implemented sophisticated matching algorithms based on conversational preferences while maintaining strict user anonymity
- Developed secure message routing infrastructure that prevented metadata leakage and ensured conversation privacy
- Built moderation tools and reporting mechanisms to maintain platform safety without compromising anonymity

EDUCATION

Islamic Azad University
Bachelor's in English Language Studies

📅 2014 - 2018   📍 Karaj, Iran

- Graduated with a GPA of 17.3/20, focusing on language acquisition and linguistics
- Conducted research on cross-cultural communication methodologies

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Nassir Language Institute
EFL Teaching Certification

📅 2016   📍 Karaj, Iran

- Graduated 2nd in class with comprehensive training in language teaching methodologies
- Developed specialized curriculum for technical English instruction

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Shahid Rajaee High School
Diploma in Mathematics and Physics

📅 2010 - 2014   📍 Karaj, Iran

- Achieved exceptional GPA of 18.9/20 in rigorous mathematics and physics program
- Participated in regional mathematics competitions