

# AMIR MOHAMMAD NADERI

## CURRICULUM VITAE

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amir-naderi

## WORK EXPERIENCE

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### Jabama

Since Dec. 2024

Online booking and accommodation

#### Back-end technical team lead

- Currently overseeing the redesign of the legacy backend services
- Currently leading the pricing workstream

### TAPSI

Oct. 2023 – Dec. 2024

Online ride-hailing

#### Back-end team lead

- Led the pricing squad in developing and maintaining the pricing micro-services
- Transformed the pricing service into a platform, to be able to serve all the new products through a unified domain
- Reimagined and rewrote the main price-calculator micro-service from ground up following domain-driven design, resulting in 25% less resource consumption and two times faster feature delivery on average
- Oversaw the redesign and major refactoring of the surge-calculator micro-service, to be able to share a kernel between offline ML data processing jobs and online production flow, removing code duplication, heavily reducing the feature delivery time, reducing the resource consumption by 25% and improving the response time by 30%
- Setup automated processes to assist the product management decision making by making data-driven suggestions

### Pooya Co.

Oct. 2018 – Oct. 2023

Banking solutions

#### Technical team lead

- Built and led a team of 5 people for developing BI web applications
- Mentored 3 junior developers in web development
- Setup the DevOps pipeline and streamlined the development cycle
- Architected 6 products with a micro-service-based approach, focusing on the efficiency, simplicity, and extensibility
- Oversaw the development of a high-performance distributed ETL system, that successfully handle a billion records of data (banking transactions)
- Conceptualized and led the development of web-based user applications for 5 BI products, using JavaScript ecosystem (Nodejs, Typescript, React, etc.), Oracle DB, MongoDB, and other technologies
- Established a framework for developing web applications, with a design system, a boilerplate project, and an extensible proprietary component library, using the JavaScript ecosystem
- Designed, modeled, and created a profiler toolkit using a fuzzy inference system, for anomaly detection
- Collaborated on developing a deep learning model based on auto-encoder architecture for anomaly detection
- Invented a data augmentation method using GANs to facilitate the training of anomaly detection models

### Hitelecom Co.

Apr. 2020 – Jun. 2021

Health and wellness

#### Technical consultant, senior software developer (part-time - remote)

- Led the development of a mobile application in the health and fitness section
- Designed and conceptualized the system architecture, with a focus on scalability, high availability, and high throughput
- Implemented the backend server, using Nodejs, typescript, MongoDB, Redis, etc.

## Moduland Co.

Nov. 2016 – Sep. 2018

Consultancy

### Co-founder, Software developer

- Managed a team of 4 people
- Oversaw the training of a total of 8 interns in web development
- Developed a custom report generator application using C#, WPF, and SQL Server
- Created 3 dashboard applications using PHP, JavaScript, MySQL, etc.

## Kaveh robot sanat sharif

Aug. 2015 – Jun. 2017

IoT and Industrial robotic solutions

### Software developer

- Built the backend server and monitoring dashboard for 2 IoT projects that successfully handled high-throughput streams of data using C++ (Qt), PHP, and JavaScript
- Developed a control panel application for an RFID access control system using Visual Basic and SQLite

## Parsan Co.

Jan. 2015 – Jul. 2016

Consultancy

### Software developer, embedded system designer (part-time)

- Co-managed a team of 5 people
- Created 3 ERPs and domain-specific applications with complex admin panels and reporting capabilities using C#, WPF, and SQL Server

## Freelancing

2008 – 2015

### Software developer, Electrical engineer

- Completed dozens of projects ranging from ERPs, custom report generator tools, company/personal websites, custom web services, and high-speed high-availability backend services for mobile applications with real-time data streams, to custom hardware-facing software and monitoring dashboards

## EDUCATION

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### MSc Artificial Intelligence and Robotics

Sep. 2017 – Sep. 2020

K.N. Toosi University of Technology (KNTU)

Data augmentation on credit card transactions data using GANs method for training fraud detection models

### BSc Electronics and Electrical Engineering

Sep. 2011 – Jun. 2016

Amirkabir University of Technology (AUT)

Designing and implementing a Brain-Computer interface

## TECHNICAL SKILLS

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**Languages:** Javascript (full-stack), Python, Go, C#

**Data tools:** Oracle, SQL Server, MySQL, PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ, Elasticsearch, GraphQL

**Data science:** Tensorflow, Keras, Sklearn, Spark

**Containerization:** Kubernetes, Docker

**Source control:** Git, CI/CD