

# Sepehr Solouki

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## TL;DR

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Having worked as a software engineer in various industries and teams, I successfully developed my focus and discipline to deliver production-grade quality software. This is a result of hard-working in pressured, well-structured, obsessive workplaces with skillful leaders.

Simultaneously, I am a super-fast learner and always seek for necessary changes and improvements in all levels of the organization.

I have strong communication skills and I am always told that I can understand people's concerns and discuss about the solution in my mind with ease.

## Personal Information

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- Email: [sephr.solouki@gmail.com](mailto:sephr.solouki@gmail.com)
- LinkedIn: <https://www.linkedin.com/in/sepehr-solouki-168287173/>
- GitHub: <https://github.com/Sesota>
- University: Khaje Nasir Toosi University (Computer Engineering Student)
- Working at: Ethica Data (as full-time back-end developer)
- Age: 23
- MBTI: ENTP

## Skills

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### Back-End and DevOps:

- Django
  - Django Rest Framework (DRF)
  - Tastypie
  - Django ORM
- FastAPI
- Gunicorn
- Celery
- Google's Protocol Buffers (protobuf)
- Mitmproxy (python proxying tool)
- S3 storage API
  - minio (python driver)
  - Boto3 (python driver)
- Matrix API (Chat)
  - Synapse server
  - Coturn (Turnserver)
- DBMS (PostgreSQL, MSSQL, Redis, MongoDB, ElasticSearch)
  - psycopg v2 and v3 async (PGSQL python driver)
  - mongoengine (MongoDB python driver)
- Nginx
- Docker and Docker Compose
- Linux administration (Ubuntu, CentOS 7)
- VMware ESXi
- Shell Scripting

### Front-End:

- Angular
  - Typescript
  - RxJS
  - Auth guard, Services
  - Animations
  - Material Angular
- VueJS
  - Quasar
- Vanilla JavaScript
  - Async programming
  - Dexie (a wrapper for IndexedDB)
  - OpenCV-JS
  - D3.js
- HTML
- CSS and SASS
- Bootstrap framework

### Project Management Tools

- Gitlab (repo, CI/CD, tasks, reviews, merge requests)
- Jira Tasks
- Feature Design Documentation
- Mattermost (Company chat-based communication)

### Data Science:

- Computer Vision
  - OpenCV (python)
  - Image processing (histograms, thresholding, edge detection, filtering, convolution, connected components, binary images, ...)
  - Basics of Convolutional Neural Networks
- Vector programming
- NumPy
- Matplotlib

## Miscellaneous:

- Git
- Vim enthusiast
- Markdown text formatting
- LaTeX text formatting (math equations)
- Processing3 (Java Sketchbook) and p5js (JS Sketchbook)
- Odoo (OpenERP) Framework
- C/C++ Basics
- Arduino

## Rather unrelated to tech:

- Languages
  - English (Advanced)
  - French (Intermediate)
- Teaching and presentation

## Experience

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### Ethica Data:

*6 months*

**Backend Developer:** I am one of 3 backend developers of the team. I am responsible for issues that happen in DevOps/backend side, especially for the features that I own (Chat/Sensory Data). This company is by far the most serious company that I have ever worked in.

### Amerandish Hooshmand:

*6 months*

**Fullstack Developer:** Developing Botava, one of the company's main products. Working on backend, frontend, microservices, automation, CI/CD and other parts of the project.

### ETC Group:

*1 year*

**Technical Lead, Fullstack Developer:** Developing, deploying, maintaining and leading company's main projects. Recruited interns (backend, frontend, UI/UX design) and mentored them to populate the dev team.

### Payvast Software Group:

*4 months*

**Python Backend Developer (Junior):** Developing ERP, CRM, Accounting and HR management systems in Odoo OpenERP framework.

### AhanOnline:

*2 months*

**CRM / SQL Developer (Intern):** Developing Microsoft Dynamics 365 and generating necessary reports.

## Notable Projects

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### Ethica (Ethica Data):

Ethica is a research no-code platform which facilitates studies with multiple researchers and participants by having participants' data gathered and stored, and activities prompted to them when researchers want.

I contributed to the Chat system, data gathering and processing, notifications, etc.

### Botava (Amerandish):

Botava is a fully-automated Persian chat-bot used as an industrial solution in companies to aid their support center. It adapts multiple well-known algorithms published in NLP field and can be trained on each company's most frequent QAs.

With the exception of the machine learning part, development of the rest of the project was on me since June 2021.

## Company's Main Website with Custom CMS (ETC):

Having a migration from a WordPress generated website, we managed to develop the company's main website with a custom, scalable and fully featured CMS along with its separate admin panel website. • <https://etcuniverse.com>

I've developed the entire frontend/backend code and infrastructure.

## Cryo Administration (ETC):

A B2B web-application for hospitals and health-centers having cryogenic storage systems, aimed to help them manage their storage easier, works both offline and online. • <https://cryo.etcuniverse.com>

This application is aimed to work offline; so the logic is mainly implemented in the frontend. I've developed the entire frontend code.

## IVF-Store (ETC):

An e-commerce website presenting company's products. • <https://ivfstore.ir>

I've developed the entire frontend/backend code and infrastructure.

## DaddyCheck (ETC):

A mobile application for men to examine their fertility by measuring the motility of their semen sample.

I've developed the entire backend code and infrastructure.

## ZiCheck (ETC):

A mobile application which measures the user's blood pressure (SP and DP), heart rate and blood's oxygen saturation by a 20 second sample video taken from his/her finger on the mobile's camera.

I've developed the entire backend code and infrastructure.

## Education

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### Diploma (2013 – 2017)

Allameh Helli High School, Mathematics and Physics  
Ranked 1087th among 148'429 contestants in University Entrance Contest

### B Sc. (2017 – 2022 [expected graduation])

Khaje Nasir Toosi University of Technology, Computer Engineering