

Houman Feizabadi

Software Engineer

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PROFILE

Software Engineer and MSc Computer Science student at the University of Bonn with over three years of professional experience in backend development and hands-on research in deep learning and computer vision. Proficient in designing and deploying scalable APIs and automation workflows with Python (Django/DRF, FastAPI), Docker, and CI/CD. Proven ability to collaborate with cross-functional teams and deliver reliable software solutions.

EDUCATION

Apr 2025 – Present	MSc Computer Science , University of Bonn (Grade: 1.3)	<i>Bonn, Germany</i>
Sep 2019 – Feb 2024	BSc Computer Engineering , Iran University of Science and Technology (Grade: 1.5)	<i>Tehran, Iran</i>

SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, C#

Backend: FastAPI, Django, Django REST Framework, Flask, Celery, NestJS

Databases: PostgreSQL, MongoDB, Redis, SQL

DevOps & Infrastructure: Docker, Kubernetes, CI/CD, GitHub Actions, Git, Linux, Kafka

ML & Data Science: PyTorch, TensorFlow, OpenCV, Scikit-learn, NumPy

AI Tools: Claude, Cursor, MCP (Model Context Protocol), Prompt Engineering

Concepts: Microservices, REST APIs, Agile, Scrum, OOP

WORK EXPERIENCE

Jul 2024 – Apr 2025	Software Engineer, Tehrun Club	<i>Tehran, Iran</i>
	<ul style="list-style-type: none">Enabled user growth from 2,000 to 4,500+ in under three months by migrating from monolithic to microservices architecture with 5 decoupled services. (FastAPI, MongoDB, Kafka, Docker)Reduced API response times by approx. 35% by optimizing MongoDB queries, defining indexes, and introducing Redis caching. (MongoDB, Redis)Fixed critical race conditions in the discount and payment system, eliminating faulty transactions and ensuring reliability for 4,500+ users. (FastAPI, Redis, MongoDB)Built and operated the full container infrastructure in close collaboration with the 4-person development team. (Docker, Kubernetes, GitHub Actions, Linux)	
Oct 2023 – Jun 2024	Software Engineer, Scorize	<i>Tehran, Iran</i>

- Developed an automated visa appointment booking system that secured 300+ successful bookings in an extremely competitive market, positioning Scorize as the market leader; implemented human-mimicking automation to bypass bot detection. (Python, Django/DRF, Selenium, Celery)
- Built the full backend infrastructure with CI/CD pipeline and automated tests. (PostgreSQL, Redis, Docker, GitHub Actions)

May 2023 – Oct 2023

Research Assistant, Computer Vision Lab, IUST

Tehran, Iran

- Automated manual tile inspection on a scorching production line by developing a Siamese Network segmentation model achieving 90% F1 score; solved the challenge of distinguishing complex tile patterns from real defects through data augmentation and label modification (BSc thesis). (Python, PyTorch, OpenCV)

Sep 2022 – Apr 2023

Software Engineer, Mallato

Tehran, Iran

- Built a food delivery system from scratch for the restaurants in Iran Mall; designed the REST API and data model as the sole backend developer. (Python, Django REST Framework)
- Developed a crawler to automate migration of legacy data (menus, categories) into the new system. (Python, Selenium)

Nov 2021 – Aug 2022

Software Engineer, Nilgam Safar

Tehran, Iran

- Automated 4,000+ US lottery registrations by developing a bot that fully eliminated manual effort for the operations team. (Python)
- Built an automated crawler for USD/IRR exchange rates (updated every 6 hours from multiple sources); collaborated closely with CRM, marketing, AI/ML, and product teams. (Python, TypeScript)

PROJECTS

Twitter Analysis

NLP Course Project

- Built a text classification pipeline using BERT and Transformers on crawled Twitter data with automatic data labeling and augmentation.
- Python, PyTorch, Selenium, BERT, Transfer Learning · [GitHub](#)

XV6 Operating System

OS Course Project

- Implemented system calls and various scheduling algorithms in xv6 using C.
- C, xv6 · [GitHub](#)

Talebi

Software Engineering Course Project

- Maintained and extended a legacy Django REST application with Docker, CI/CD workflows, and tests.
- Django REST Framework, Docker, GitHub Actions · [GitHub](#)

LANGUAGES

- Persian (Native)
- English (Full professional proficiency, TOEFL iBT: 106/120)
- German (A2, currently improving)