Farbod Fooladi

Full-Stack, Software Engineer | Next.js, Python, C#/.NET, ASP.NET Core, FastAPI, REST APIs, MySQL, Docker
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PROFESSIONAL SUMMARY

Full-stack Software Engineer with 2+ years of professional and freelance experience building, testing, and deploying web applications. Skilled in Python, C#/.NET, JavaScript, React, REST APIs, MySQL, Docker, and Linux, with experience troubleshooting issues and translating requirements into reliable software. Collaborative and curious, with a strong foundation in software development and a focus on learning and delivering maintainable solutions.

TECHNICAL SKILLS

- **Languages**: Python, C#, JavaScript, SQL, Programming
- **Frontend & Backend**: React, ASP.NET Core, .NET, FastAPI, REST API Development, API Integration
- **Databases & Tools**: MySQL, Relational Database Design, Git, GitHub, Docker, Linux
- **Testing & Engineering**: Unit Testing, Integration Testing, API Testing, SDLC, Requirements Analysis, Debugging, Error Handling, Technical Documentation, Data Structures, Algorithms

PROFESSIONAL EXPERIENCE

Self-Employed (Freelance) **Oct 2025 - Present**
Software Engineer *London, UK*

- Delivered 8+ application features across client projects by building 15–20 REST API endpoints in Python and FastAPI, including request validation and error handling.
- Developed AI-enabled client features using the OpenAI API, LangGraph, Scikit-learn and Pandas for document processing, prediction, recommendations and multi-step agent workflows.
- Executed unit, API, integration and regression testing across 3–5 change requests per development cycle, supporting reliable client handovers.
- Managed source code with Git and GitHub, then deployed Docker-containerised applications in Linux environments to support consistent software delivery.

Namaad Iran Co. **Mar 2023 - Sep 2024**
Software Enginee (Part-Time) *Tehran, Iran*

Enterprise software firm specialising in financial solutions for mid-to-large corporations.

- Translated stakeholder requirements into technical specifications and delivered 5 full-stack applications with C#, ASP.NET Core and React for 500+ active users.
- Designed REST APIs connecting internal components and external services, while developing MySQL data operations including queries, CRUD functionality and validation for reliable data exchange.
- Investigated production issues through root-cause analysis, implemented and validated fixes, and used Docker to maintain consistent development and deployment environments.

PROJECTS

Telco Customer Churn Prediction GitHub

- Python, Scikit-learn, Pandas, Streamlit
- Developed and deployed a Streamlit churn prediction application using logistic regression and random forest, achieving 0.84 ROC-AUC through leakage-safe preprocessing, class-imbalance handling, cross-validation, and model comparison.

AI Security Camera System GitHub

- Python, FastAPI, YOLOv8, Next.js
- Built a self-hosted AI security system with a Python agent for real-time person detection using YOLOv8, streaming events to a FastAPI backend over WebSocket and supporting JWT-authenticated device pairing and Telegram bot alerts.

Quadcopter Image Detection GitHub

- Python, TensorFlow, Keras, Webots
- Developed and evaluated a CNN-based image-detection model, covering dataset preparation, training, validation, performance evaluation and inference assessment.

EDUCATION

MSc, Data Science **Oct 2024 - Oct 2025**
University of Essex *Colchester, UK*

- Dissertation: Developing a Machine Learning-Based Movie Recommendation System

BSc, Computer Science **Sep 2019 - Jan 2024**
Shahid Beheshti University *Tehran, Iran*