

SASAN IZADSETA

Senior Software Engineer · .NET, Python, Azure & AI

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PROFESSIONAL SUMMARY

Senior software engineer with 10+ years of experience building enterprise systems end to end: C#/.NET and Python back ends, React and Angular front ends, SQL Server databases, and Azure, Docker and Kubernetes for deployment. Recent Master's thesis at Politecnico di Torino on Sovereign Edge AI, delivering an on-premise LLM copilot with RAG and confidential computing. Also experienced in Delphi ERP software, Windows Server and Active Directory deployments, and the manufacturing sector. Works to clean-code, TDD and domain-driven design standards.

TECHNICAL EXPERTISE

.NET & Back End	C#, .NET Core, ASP.NET Core, Entity Framework Core, REST APIs, Microservices, Delphi, Pascal
Python & AI	Python, FastAPI, CherryPy, LLMs (Ollama, Mistral, LLaMA, Azure OpenAI), RAG, FAISS, Qdrant
Front End	React, Angular, TypeScript, JavaScript, HTML5, CSS3, Flutter, Single Page Applications (SPA)
Cloud & DevOps	Microsoft Azure, Docker, Kubernetes, RabbitMQ, MQTT, OpenNebula, CI/CD, Git
Data	MS SQL Server (T-SQL), PostgreSQL, MongoDB, Redis, InfluxDB
Systems & Security	Windows Server, Active Directory, DNS, Linux, Intel SGX/TDX, GDPR and data protection

PROFESSIONAL EXPERIENCE

Cloud & AI Specialist — **2025 – Present**

NextGCloud — Torino, Italy · Master's thesis internship

Technologies: Python, FastAPI, Streamlit, Redis, MongoDB, FAISS, Ollama, Mistral, LLaMA, RAG, Docker, Intel SGX/TDX, Gramine, OpenNebula, Microsoft Azure

- Delivered an on-premise legal copilot with a dual-level RAG pipeline (MongoDB archive, in-memory FAISS cache), FastAPI, Redis and local LLMs.
- Ran unmodified LLMs inside Intel SGX/TDX trusted execution environments through Gramine, meeting data-residency requirements.
- Designed a hybrid-cloud continuum on OpenNebula, connecting local edge processing nodes to enterprise Azure infrastructure.

Software Engineer — **2020 – 2023**

Saipa Automotive Group — Tehran, Iran

Technologies: C#, ASP.NET Core, .NET, REST APIs, MS SQL Server (T-SQL), React, TypeScript, DNN, TDD/Unit Testing, DDD

- Built a sales accounting platform end to end, with a React and TypeScript front end and an ASP.NET Core back end.
- Developed centralized ASP.NET Core middleware that consolidated legacy databases into unified REST APIs for mobile apps.
- Built a validation engine with real-time third-party API integration for secure National ID verification.

Software Engineer — **2019 – 2020**

ICAN — Tehran, Iran

Technologies: ASP.NET Web Forms, JavaScript, HTML, CSS, Microsoft WOPI, CI/CD, Active Directory, DNS Server, Google Maps & Neshan APIs

- Integrated Microsoft WOPI for in-browser Office editing inside an enterprise BPMS for banking and telecom clients.
- Deployed the server side on customer networks, including DNS and Active Directory, and automated the full installation.
- Architected a multi-provider GIS module (Google Maps, Neshan) with five visualization modes.

Software Engineer — **2015 – 2019**

System Group — Tehran, Iran

Technologies: C#/.NET, ASP.NET Web Forms, Delphi, Pascal Script, MS SQL Server, REST APIs, ActiveX, JSON, Serial/USB integration

- Developed mission-critical ERP software in Delphi and C#/.NET for the cement and manufacturing industry.
- Built a hardware-agnostic weighbridge module (serial/USB) with a Pascal scripting engine, and added JSON support to Delphi 5.
- Optimized long-running SQL Server queries in the accounting and stock subsystems, significantly improving processing speed.

SELECTED PROJECTS

SVF & PV Potential Detector — **2025**

Politecnico di Torino — Interdisciplinary Project · Front-end & back-end lead

Technologies: Python (back end), Flutter (front end), Kubernetes, Custom Resource Definitions (CRD), RabbitMQ, Microservices

- Built a Kubernetes microservice platform with RabbitMQ and a custom CRD that autoscales pods with queue depth.

Smart Care Device — Remote Patient Monitoring — **MSc IoT course**

Politecnico di Torino — Internet of Things project

Technologies: Python, CherryPy, REST APIs, Docker, Docker Compose, MQTT (Mosquitto), InfluxDB, PostgreSQL, Telegram Bot API, Flutter

- Built 10 Dockerized Python microservices with MQTT, InfluxDB and PostgreSQL, alerting doctors on Telegram in real time.

EDUCATION & LANGUAGES

Master of ICT for Smart Society, Politecnico di Torino, Italy — **Completed 2026**

Thesis: Sovereign Edge AI and Confidential Computing in the cloud-edge continuum, carried out with NextGCloud

Bachelor in Computer Hardware, Jondi Shapour University, Iran — **Completed 2013**

Certification: Microsoft AI-200: exam in progress

Languages: Persian (Native) · English (C1 – Professional Working Proficiency) · Italian (B1)

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