



Javad RAZAVI

Python Developer & Artificial Intelligence

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Computer Science and Data Science Engineer, I distinguish myself with dual expertise in **Python Development** and **Applied Artificial Intelligence** (Scikit-learn, TensorFlow, ONNX conversion, language model integration via API). I design complete applications on my own, all the way to production, and I use LLMs every day in my work. I combine operational rigor with a strong algorithmic culture to design high-performance technical solutions.

Objective:

Passionate about **Algorithms** and **Software Architecture**, I aim to steer my career towards **Python Development** and **Applied Artificial Intelligence**. I am looking to tackle complex technical challenges within a development team, leveraging my production experience (Tier 2) which taught me the requirement for tested, maintainable and robust code.

Skills:

DEVELOPMENT & PROGRAMMING

Python (Scripting, Automation, Pandas), **OOP** (Object-Oriented Programming), **MVP** pattern (Model-View-Presenter), **C++** and **MQL5**, **Scala**, **Apache Spark**, **Bash/Shell**, **Git** (Versioning), **API** integration.

ARTIFICIAL INTELLIGENCE

Scikit-learn, **TensorFlow**, training of predictive models and conversion to **ONNX** format for inference, **LLM** integration via API (daily use in development), **No-Code/Low-Code** (workflow optimisation).

DATA & DATABASES

SQL (Complex queries, Oracle, SQL Server), **ELK Stack** (Elasticsearch query DSL, Kibana), Log analysis (JSON, XML, Parsing), Data visualisation.

INFRASTRUCTURE, QUALITY & METHOD

Linux/Unix (Command line expert), **ISTQB** (Certified — Test & Validation), **JIRA** (Defect tracking), **Business Owner** (BO) for dev teams, Root Cause Analysis (RCA), Operational rigor.

Languages:

French



English



Persian



Interests:

Development & Algorithms: Building my own tools all the way to production — trading robots (MQL5/MetaTrader), desktop applications, websites.

Technical Reading: Data architectures, machine learning and statistical validation methods. I enjoy reading the papers as much as implementing them.

Critical Thinking: Testing my own hypotheses until they break — telling a solid result apart from an appealing one.

Sports: Sporty by nature, driven by effort and self-improvement.

Experience:

- Support Engineer - GIE Sesam-Vitale** (April 2025 - April 2026 - Le Mans, France)

Tier 2 Application Support Engineer & Data Analyst

- Internal Tools Development:** Design and coding of an "**APCV Research Hub**" (Web Interface) centralizing access to diagnostic tools for the team.
- Scripting & Automation:** Creation of **Bash** and **VBA** scripts to automate log analysis and repetitive incident processing (Productivity gain).
- Data Engineering (ELK):** Development of complex queries (**JSON/Lucene/ES/SQL**) and Kibana dashboards for technical investigation and monitoring.
- Business Owner (BO):** Translating production incidents into technical specifications for development teams (Bug fixes, SDK robustness improvements).
- Incident Management:** Root Cause Analysis (RCA) and technical coordination with vendors (Thales, Worldline).

- Projects**

Algorithmic Development & Trading (Full Autonomy)

- Trading Robots (Expert Advisors) - MQL5 & C++:** Design and development of autonomous trading bots.
 - Advanced Software Architecture: Use of **OOP** (Object-Oriented Programming) and **MVP** (Model-View-Presenter) pattern.
 - Implementation of risk management algorithms and real-time order execution.
- Machine Learning & AI (Python/ONNX):**
 - Training predictive models in **Python** (Scikit-learn/TensorFlow).
 - Conversion and integration of models in **ONNX** format for fast inference within trading environments.
- Analysis Scripting:** Development of Python scripts for backtesting, performance analysis, and financial data modeling.

- IT Consultant - S.I.I Le Mans**

Database Administrator - Covéa (January 2023 – February 2024)

- Verified existing databases and created new ones
- Provided user support while simultaneously completing assigned tasks on \$U
- Developed comprehensive technical documentation for users

Data Scientist & Analyst - dataLab SII Lyon (March 2024 – June 2024)

- Developed a predictive model in Python for solar energy production in France, leveraging external APIs.
- Implemented a data analysis pipeline to interpret results and identify influential factors.
- Collaborated with researchers to explore innovative approaches in renewable energy.

Functional Tester - GIE Sesam-Vitale (June 2024 - December 2024)

- Validated solutions through functional and non-functional testing on Oracle.
- Automated test cases by developing scripts to ensure quality.
- Documented test plans and bug reports.
- ISTQB Foundation Level 4.0 certified to strengthen software testing skills.
- Demonstrated autonomy and proactivity in designing and improving testing processes.

- Plateforme INRAE - LIPME Bio-informatique**

Master's Thesis (February 2021 – July 2021)

- Developed and implemented a scalable data processing pipeline for genomic data using Apache Spark.

Research Engineer (IR) (October 2021 – December 2022)

- Designed and maintained an advanced "Big Data" architecture using Apache Spark for genomic annotation.
- Oversaw the design and implementation of Scala/Spark programming and genetic annotation.
- Provided mentorship for the implementation of a biological data analysis software on the new platform.

- HCS Pharma (September 2019 – January 2020)**

MicrobioTeck Project:

- Experimented with multiple iterations of a molecular database and created a search and data analysis system in Excel.
- Exceeded expectations in rapid prototyping and literature review.
- Managed a project on drug repositioning to discover neuroprotective molecules.

Education:

- National Polytechnic Institute of Toulouse (INPT)**
National Higher School of Agronomy of Toulouse (ENSAT)
Master 2 of Science in Bio-Computation (September 2020 – September 2021)
 - Advanced expertise in computer science, programming, and data analysis.
 - Developed innovative solutions.
- Master 1 in Agro-BioScience (September 2019 to June 2020)
 - Focused on biology and plant improvement.
- CESI, Saint-Nazaire - Pre-Master Program (September 2018 to June 2019)**
 - French as a Foreign Language (FLE)
 - Intensive French language training to prepare for engineering studies.
 - Successfully integrated into a French academic environment.
- University of Tehran, Faculty of Agriculture and Natural Resources - (September 2013 - September 2017)**
Bachelor of Science in Agricultural Engineering
 - Specialization in Agricultural Mechanization
 - Agronomy and agricultural project management
 - Teaching assistant, specialized in Visual Basic and programming project development
 - Project manager for agricultural renovation and resource management