



# Javad RAZAVI

Data Science & Software Development Engineer

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**Computer Science and Data Science Engineer**, I distinguish myself with dual expertise in **Development** (Python, Scala, MQL5) and **Critical Support** (Tier 2). Currently at GIE SESAM-Vitale, I went beyond the standard support scope by **developing** my own tools (Web Interface, Automation Scripts, ELK Dashboards) to improve production reliability. 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 **Backend Development, Automation, or Data Engineering**. 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), **Scala**, **Apache Spark**, **MQL5** (Advanced Algo & Trading Bots), **Bash/Shell**, **Git** (Versioning), **No-Code/Low-Code** (Workflow optimization), **LLM/AI** Integration for coding.

**DATA & DATABASES** SQL (Complex queries, Oracle, SQL Server), **ELK Stack** (Elasticsearch query DSL, Kibana), **Log Analysis** (JSON, XML, Parsing), **Data Visualization**.

**INFRASTRUCTURE & QUALITY** Linux/Unix (Command line expert), **ISTQB** (Certified - Test & Validation), **JIRA** (Defect tracking). Understanding of critical Production environments.

**METHODOLOGY** In-depth technical analysis, **Business Owner (BO)** for dev teams, **Problem Solving**, **Operational rigor**.

## Langues :

French



English



Persian



## Passions :

Développement & Algorithmique : Création de scripts d'automatisation et de robots de trading (MQL5/MetaTrader).

Veille technologique active sur les architectures Data et le Machine Learning. **Challenges Techniques** : Résolution de problèmes complexes et optimisation de code (Coding challenges).

**Sport** : Pratique régulière pour la persévérance et le dépassement de soi.

## Expérience:

### • 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/QL**) 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 - Covea (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 Sesame 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 en Agro-BioScience (Septembre 2019 à Juin 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