



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.

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