



Javad RAZAVI

Software Development & Trading Systems Engineer

- +33 6 68 92 19 49
- Bonnétable, France
- S.javad_rz@yahoo.com
- www.linkedin.com/in/javad-razavi
- github.com/Sjrazaviebra
- www.javadrazavi.fr

Computer Science and Capital Markets Engineer, I distinguish myself with dual expertise in **Development** (C++, MQL5, Python) and **Critical Support** (Tier 2). I have designed and shipped complete trading applications, from architecture to production: one of them is **published on the MetaTrader marketplace** after the vendor's technical review. 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 **Market Application Development** (pricing, trading, front to back). 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 & ARCHITECTURE

C++ and MQL5 (Expert Advisors, Indicators, Control Panels), OOP (Object-Oriented Programming), MVP pattern (Model-View-Presenter), Python (Scripting, Automation, Pandas), Git (Versioning), API integration, VBA, LLM/AI Integration for coding.

MARKETS & QUANTITATIVE

Real-time order execution and Risk Management algorithms, rigorous Backtesting (walk-forward, hold-out sample), Machine Learning (Scikit-learn, TensorFlow, ONNX conversion for fast inference), Financial data modeling, Statistical validation (López de Prado method).

DATA & QUALITY

SQL (Complex queries, Oracle, SQL Server), ELK Stack (Elasticsearch query DSL, Kibana), ISTQB (Certified — Test & Validation), JIRA (Defect tracking), Linux/Unix (Command line expert), Root Cause Analysis (RCA).

METHODOLOGY

Front to back development in full autonomy, Business Owner (BO) for dev teams, Direct contact with end users, 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