



Javad RAZAVI

Python Engineer — Large-Scale Data Processing

- +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 Data Science Engineer, I distinguish myself with dual expertise in **Distributed Processing** (Apache Spark, Scala, PySpark) and **Critical Support** (Tier 2). I designed and maintained a **Big Data** computing architecture at INRAE for genomic annotation, then spent a year at GIE SESAM-Vitale working on national healthcare data flows. 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** applied to **High-Performance Computing** and large-volume data processing. 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:

PYTHON & HIGH-PERFORMANCE COMPUTING

Python (Scripting, Automation), Pandas , NumPy, Scikit-learn, PySpark, workload optimisation and benchmarking, OOP (Object-Oriented Programming), Git (Versioning), API integration.

DISTRIBUTED PROCESSING & BIG DATA

Apache Spark and Scala (distributed computing architecture in production, INRAE platform), data pipelines, data modelling and cleansing, ETL, large-volume processing.

DATA & DATABASES

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

METHODOLOGY & QUALITY

ISTQB (Certified — Test & Validation), Business Owner (BO) for dev teams, business/IT dialogue, code review and technical documentation, Operational rigor, Professional English.

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