

Zeineb Eya Rahmani

Computer Science Engineer

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Education

Engineering Degree in Computer Science, Ecole Supérieure Privée d'Ingénierie et de Technologies (ESPRIT) [↗](#)
September 2019 – December 2024
Ariana, Tunisia

Certificates

- Master the Art of Data Visualization With Tableau Public [↗](#)
- Thinking Like an Analyst [↗](#)
- Designing a SAP Solution [↗](#)
- Implementating a SAP Solution [↗](#)
- Introduction To Microsoft Azure Cloud Services [↗](#)
- Microsoft Azure Management Tools and Security Solutions [↗](#)
- Microsoft Azure Services and Lifecycles [↗](#)
- Preparing For AZ-900 Microsoft Azure Fundamentals Exam [↗](#)
- Scrum Fundamentals Certified (SFC) [↗](#)
- Marketing Strategy Fundamentals [↗](#)
- Digital Marketing Fundamentals [↗](#)
- Marketing Research Fundamentals [↗](#)
- Six Sigma Yellow Belt [↗](#)

Skills

- Programming & Development
- Languages:** Python, R, Java, C/C++/C#, JavaScript, TypeScript, VBA, XML, DAX
 - Frameworks & Tools:** Spring Boot, Symphony, Angular, Quarkus, WordPress, HTML, CSS, PHP

Profile

Computer Science Engineer with 3 years of experience in Quality Assurance for complex SaaS products. I've led functional, regression, and API testing, automated CI/CD pipelines, and built performance monitoring dashboards. Passionate about data analysis and understanding business needs, I'm now specializing in **Business Intelligence** and **Business Analysis**. With strong expertise in BI tools and the ability to translate functional requirements into actionable solutions, I bridge the gap between technical teams and stakeholders. My goal: to design reliable, impactful, and user-oriented products.

Professional Experience

Software Quality Assurance Engineer, Uvey [↗](#)

April 2025 – present | Centre Urban Nord, Ariana, Tunisia

- Conduct functional, regression, and API testing for a SaaS accounting platform (Quarkus, React).
- Write clear, reproducible bug tickets with severity tagging and log-based diagnostics.
- Build and maintain automated test using Playwright, integrated with Allure reporting.
- Integrate and validate AI-driven features using prompt engineering and output testing methods.
- Manage ClickUp boards, define ticket flows, and ensure traceable task lifecycles.
- Support developers by clarifying functional/technical requirements and workflows.
- Create internal documentation on ticket handling, board usage, and QA processes.
- Analyze logs with Kibana/Elasticsearch to diagnose and resolve production issues.
- Monitor system health and performance using custom dashboards in Grafana and Prometheus.
- Coordinate with teams during sprints and lead post-release testing to catch live issues.

Business Intelligence engineer, WeCraft [↗](#)

February 2024 – September 2024 | Centre Urban Nord, Ariana, Tunisia

- Spearheaded design and management of scalable ETL pipelines with Apache Airflow and dbt, orchestrating and transforming structured/semi-structured financial transaction data to **boost data-integration efficiency by 40%**.
- Implemented comprehensive CI/CD pipelines for data pipeline deployment using Docker, and Gitlab CI.
- Centralized and optimized financial/accounting datasets in BigQuery, enhancing data accessibility, governance, and query performance for fraud detection and risk analysis.
- Developed parameterized, modular dbt models to ensure flexibility, reusability, and maintainability across diverse data environments.
- Automated ETL processes for transaction processing and invoice reconciliation, **reducing data-processing time by 25%** and enabling real-time anomaly detection.
- Implemented ML-driven anomaly detection (Isolation Forest, clustering techniques), identifying fraudulent patterns and **cutting fraud incidents by 20%**.
- Designed interactive dashboards and reports for financial analysts, translating complex objectives into actionable insights and **improving decision-making efficiency by 30%**.
- Monitored key financial/operational KPIs to drive proactive risk management and continuously enhance fraud-detection capabilities.

Software Quality Assurance Engineer, WeCraft [↗](#)

October 2022 – September 2024 | Centre Urban Nord, Ariana, Tunisia

- Conducted system-specification reviews and **executed 200+ manual/automated test cases** across **Deeprise** (Industry 4.0), **Uvey** (Accounting), and **Rektic** (SEO) projects, achieving a **90% defect-identification rate**.
- Developed and implemented test strategies, maintaining **98% compliance** by reviewing code against specs with **95% accuracy**.
- Leveraged Kibana and Elasticsearch for comprehensive log analysis, enabling efficient debugging and root cause analysis of application issues.
- Authored and maintained comprehensive test documentation (plans, cases, logs), streamlining defect resolution and **reducing turnaround by 30%**.
- Led defect-management processes in collaboration with development teams, **accelerating issue resolution by 25%** and elevating overall software quality.
- Performed post-release and post-implementation testing, **decreasing post-release defects by 15%**.
- Assisted in **debugging and fixing 50+ issues** using Quarkus (backend) and Angular (frontend).
- Built a real-time defect-resolution dashboard by integrating Trello and internal data, enhancing QA visibility and performance monitoring.

Software Quality Assurance Analyst Intern, Deeprise [↗](#)

June 2022 – August 2022 | Centre Urban Nord, Ariana, Tunisia

- Reviewed system specifications for the **Deeprise Industry 4.0** platform, ensuring alignment with business and functional requirements.
- Executed **150+ manual/automated test cases**, identified/documented defects, and upheld a **95% adherence to quality standards**.
- Generated detailed test logs and reported bugs, contributing to a **25% reduction in bug-fix turnaround time**.
- Collaborated with product and development teams on issue diagnosis and resolution, performing post-release testing that **cut defects by 15%**.

- **DevOps & CI/CD:** Jenkins, Docker, Docker Compose, Nexus, Git, SonarQube

Testing & QA

- **Automation & Manual Testing:** Selenium, Puppeteer, JUnit, Cypress, Cucumber, RSpec
- **Test Types:** Unit, Regression, E2E, API, Performance, Smoke, Sanity

Data & Business Intelligence

- **BI & Visualization:** Power BI, Looker, Tableau, Google Data Studio, Dataiku, Excel, Google Sheets
- **Data Engineering:** Google BigQuery, dbt, Apache Airflow, Cloud Composer, Talend, NiFi, SSIS, SSAS, SSRS, Snowflake
- **Data Management:** Data Warehousing, Data Modeling, ETL Pipelines, KPI Tracking, Data Cleaning & Wrangling
- **ERP & CRM:** SAP BW, SAP ABAP, SAP Analytics Cloud, Dynamics 365
- **Machine Learning:** Predictive Modeling, Random Forest, Data-Driven Insights

Cloud & Infrastructure

- **Platforms:** Google Cloud (BigQuery, Cloud Storage, Composer), SAP Cloud, Microsoft Azure, Azure Data Factory
- **Monitoring & Logging:** Prometheus, Grafana

Project Management & Collaboration

- **Agile Methodologies:** Scrum, Kanban
- **Tools:** Jira, Trello, ClickUp, Notion, SharePoint
- **Skills:** Stakeholder Engagement, Risk Management, Resource Planning, Change Management, Training & Mentorship

Business Analysis & Strategy

- **Techniques:** KPI Analysis, Reporting, Market Research, Customer Segmentation, Data-Driven Decision Making

Marketing & UX/UI Design

- **Marketing Analytics:** Marketing Mix Modeling, SWOT Analysis

- **Design Tools:** Adobe XD, Illustrator, Figma, Photoshop

Operating Systems & Databases

- **OS:** Windows, Linux/Unix
- **Databases:** SQL, Oracle, MySQL, Microsoft SQL Server, Postgres, MongoDB

Languages

Arabic — Native

English — Bilingual

French — Fluent

German — Beginner

- Worked cross-functionally to maintain software stability and performance throughout the development lifecycle.
- Assisted in **debugging and fixing 50+ issues** using Quarkus (backend) and Angular (frontend).

FullStack Developer Intern, ABSHORE

August 2021 – September 2021 | Les Berges Du lac, Tunis, Tunisia

- Led end-to-end redesign and implementation of the corporate website in WordPress, enhancing UI/UX and **boosting search-engine rankings by 30%**.
- Enhanced SEO strategies and optimized content, driving a **40% increase in web traffic** and a **50% uplift in user engagement**.
- Architected and developed a scalable Symfony web application, seamlessly integrating front-end and back-end components.
- Optimized performance to **reduce load times by 45%**, **elevating user satisfaction by 35%**.
- Delivered a robust solution that streamlined core business processes, **increasing operational efficiency by 40%**.

Enterprise Resources Planning Analyst Intern, Societe Industrielle de Fabrication d'Anses (SIFA)

August 2020 – September 2020 | Ben Arous Governorate, Tunisia

- Streamlined payroll processing via ERP configuration, ensuring accurate salary calculations and reducing payroll errors.
- Improved inventory visibility and supply-chain efficiency by leveraging ERP modules for real-time stock tracking and reporting.
- Managed HR operations, employee records, leave requests, workforce planning, within the ERP, enhancing data accuracy and operational efficiency.
- Oversaw resource allocation in the ERP system, optimizing cross-departmental cost management.
- Utilized ERP CRM tools for order processing and customer interactions, boosting order accuracy and satisfaction.

Projects

Machine Learning for Computational Drug Discovery

Developed a complete ML pipeline to predict the bioactivity of compounds against Acetylcholinesterase using data from the ChEMBL database. Built multiple regression models including Random Forest and compared them using R^2 and RMSE metrics. Deployed the best model as a Streamlit web app for real-time predictions from SMILES input.

- Retrieved and preprocessed bioactivity data from ChEMBL using chembl_webresource_client
- Conducted EDA, calculated Lipinski descriptors and molecular fingerprints with PaDEL
- Trained and evaluated multiple regression models (Random Forest, Ridge, SVR) with lazypredict
- Achieved $R^2 = 0.82$ and $RMSE = 0.64$ on 5-fold CV using Random Forest on PubChem descriptors
- Deployed a user-friendly web app allowing researchers to upload SMILES files and get predictions with downloadable results

Business Intelligence Project : World Development Indicators

- Successfully gathered, integrated, and processed over **10 million** records from complex datasets related to health systems, risk factors, climate variability, emissions, energy, freshwater, agriculture, and rural environments.
- Designed and implemented a sophisticated decision-support dashboard using Power BI, significantly reducing data analysis time and improving accessibility to critical insights.
- Conducted in-depth analysis and visualization of data, resulting in an increase in accuracy for trend assessments and enhanced understanding of project sustainability performance.
- Developed and incorporated sustainable development indicators, leading to a substantial improvement in project performance evaluation.
- Executed data cleaning and integration of multiple data sources, achieving an enhancement in data quality with fewer errors.
- Created interactive dashboards featuring advanced filters, dynamic charts, and comprehensive reports, boosting access to key information and facilitating informed decision-making.

DevOps Project: Spring Boot Application Pipeline

- Led the development of a robust DevOps pipeline for a Spring Boot application, automating the build, test, and deployment processes.
- Utilized a combination of industry-standard tools and best practices to ensure efficiency, reliability, and scalability throughout the pipeline.
- Implemented continuous integration and continuous delivery (CI/CD) using Jenkins and Git, enabling seamless integration of code changes and automated builds.
- Integrated JUnit for automated unit testing, ensuring code quality and identifying issues early in the development cycle.
- Implemented Sonar for code analysis, providing insights into code quality, security vulnerabilities, and technical debt.
- Utilized Nexus as a repository manager for storing and managing artifacts, ensuring consistency and reliability in artifact management.
- Orchestrated containerization using Docker, enabling deployment consistency across different environments.
- Implemented Docker Compose for managing multi-container Docker applications, simplifying deployment and scaling processes.
- Integrated Prometheus and Grafana for monitoring and visualization, enabling real-time monitoring of application performance and resource utilization.