

# Juan Miguel Rodriguez Ramirez

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## PROGRAMMING KNOWLEDGE

<b>Languages</b>	Java, Python, TypeScript, JavaScript, MATLAB, C++
<b>Backend &amp; APIs</b>	Spring Boot, Spring Security, Hibernate, JPA, JWT, JUnit, NestJS, Node.JS
<b>Databases</b>	PostgreSQL, MySQL, SQLite
<b>Data Engineering &amp; Analytics</b>	Azure Data Explorer (ADX/KQL), Databricks (PySpark), Elasticsearch
<b>AI &amp; Applied Machine Learning</b>	Azure Cognitive Services (Speech, Translation), MATLAB ML Toolbox, Whisper, VOSK
<b>Frontend</b>	Angular, NextJS, React, Tailwind CSS, Streamlit
<b>Cloud &amp; DevOps</b>	Azure, AWS, Maven, Docker, Git, Linux
<b>Collaboration &amp; Enterprise Tools</b>	Jira, Confluence, Sharepoint, SAP, SCRUM

## WORK EXPERIENCE

### Full-Stack Developer – Event Services



Sep 2025 – Present

#### Private Client



Munich, Germany

Python Azure Cognitive Services Azure Speech Streamlit Whisper VOSK Deep-Translator

- Designed and implemented a real-time multilingual speech translation pipeline using Python and Azure Cognitive Services, enabling live transcription and translation during events.
- Integrated Azure Speech-to-Text (STT) and translation services with a Streamlit frontend to deliver near real-time captions.
- Built an end-to-end audio processing workflow (capture audio, STT, translate, stream) ensuring multi-language support.

### Data Engineer – Automotive Industry



Dec 2024 – Aug 2025

#### ARRK Engineering GmbH



Munich, Germany

Python Azure ADX KQL Databricks AWS PySpark

- Processed high-volume vehicle telemetry data in Azure, implementing KQL-based ETL pipelines in ADX to transform raw error logs into structured datasets for analysis.
- Integrated Databricks and PySpark preprocessing outputs into KQL workflows, ensuring data consistency and reliability for downstream analytics.
- Designed and optimized ADX dashboards for engineers, accelerating system debugging and supporting ongoing vehicle development.

### Full-Stack Developer – E-Commerce



Dec 2023 – Nov 2024

#### Trenzas Carrizal C.A.



Munich, Germany

Java Spring Boot Hibernate JavaScript TypeScript Angular Docker Git MySQL AWS NestJS NextJS

- Built a full-stack e-commerce platform (Spring Boot, Angular, MySQL) to manage inventory, product lifecycle, and purchase transactions across the retail operation.
- Implemented secure REST APIs with JWT-based authentication and a relational data model (Hibernate/JPA), ensuring transactional integrity and controlled user access.
- Containerized the application with Docker, enabling reproducible local deployment and streamlined development workflows.

### Software Engineer – Enterprise Software



Feb 2022 - Nov 2023

#### Planisware Deutschland GmbH



Munich, Germany

Java Spring Hibernate JavaScript Angular Elastic Search PostgreSQL Azure AD Sharepoint SCIM REST Linux SCRUM

- Developed and extended full-stack modules within the Planisware platform, contributing to client-specific feature implementations and system enhancements in agile SCRUM teams.
- Designed and implemented Java and JavaScript APIs to integrate Planisware with external services (e.g., Azure AD, SharePoint), improving operability and data exchange.
- Performed debugging, root-cause analysis, and backend/database optimizations (PostgreSQL, Linux environments), ensuring platform stability and reliable production deployments.



Google Analytics Google Tag Manager Google Data Studio Adobe Analytics Adobe Target JavaScript HTML CSS Jira

- Designed and implemented web tracking concepts using Google Analytics, Adobe Analytics, and Google Tag Manager, translating business requirements into data implementations.
- Developed and debugged JavaScript-based tracking solutions to ensure data collection and event consistency.
- Built interactive dashboards (Google Data Studio, Adobe Analytics) and collaborated with clients to refine measurement strategies and improve reporting accuracy.

## LANGUAGES

**Spanish** (Native speaker) | **English** (Fluent – C1) | **German** (Fluent – C1)

## EDUCATION

**Technical University of Munich (TUM)** | M.Sc. Environmental Engineering | Fields of Study: Data processing, probabilistic methods and machine learning

**Universidad Simón Bolívar** | B.Sc. Mechanical Engineering | Fields of Study: Machine dynamics and machine elements