

RAUL LUGO

SOFTWARE ENGINEER

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WORK PORTFOLIO

ESG Data Platform for Sustainability Management

Automotive | 📅 Oct 2025 - Dec 2025

🏢 Volkswagen AG 🏗 +50 🏆 Scrum

Python AWS Lambda AWS API Gateway AWS CDK
React TypeScript AWS CloudFormation AWS Amplify
AWS Cognito OpenAPI Pytest Vitest

As a fullstack developer, I worked on the ESG platform for Volkswagen AG, managing sustainability data across 900+ organizational units. My focus was on developing a RESTful API to integrate ESG data between internal and external systems, as well as optimizing the React web application for capturing and validating sustainability metrics.

I implemented serverless architectures with AWS Lambda and API Gateway for batch and real-time synchronization. On the frontend, I improved usability through responsive design and validation logic. The solution supports international standards such as GRI and CSDR, enabling compliance with global sustainability reporting requirements.

Energy Systems Whitelabeling Platform

Energy Sector | 📅 Jun 2024 - Sep 2025

🏢 E.ON Energie Deutschland GmbH 🏗 +100 🏆 Scrum

TypeScript AWS Lambda AWS API Gateway AWS CDK Node.js
AWS DynamoDB

In the transformation project "Future Energy Home" (FEH), I'm developing a platform for B2C customers to connect their energy systems (photovoltaic, heating, electric vehicles). My focus is on backend development for whitelabeling E.ON applications, allowing business partners to integrate their own brand identities into apps.

I implement serverless backend architectures with AWS Lambda and API Gateway, defining infrastructure with AWS CDK as code. This solution provides partners access to the E.ON ecosystem under their own branding and promotes the use of smart charging for EVs and grid feedback.

Automated Marketing Campaign Solution

Advertising & Marketing | 📅 Jan 2024 - Aug 2025

🏢 Devengo GmbH 🏗 1 🏆 Scrum

TypeScript NestJS React Docker RxJS Redux Puppeteer Cheerio

In my role as a software developer, I designed, implemented and delivered an automated solution for an advertising agency to optimize their daily processes. I independently developed a backend and frontend application, supported by direct customer feedback.

My focus was on integrating external APIs for a CRM SaaS to identify email addresses and a gender identification service, enabling highly personalized campaign emails. This increased the agency's customer reach by ten times.

PROGRAMMING KNOWLEDGE

🐍 Python
Very Good Knowledge

☕ Java
Very Good Knowledge

(JS) JavaScript
Very Good Knowledge

typescript TypeScript
Very Good Knowledge

dart Dart / Flutter
Good Knowledge

LINGUISTIC PROFICIENCY

Spanish (Mother Tongue) ● ● ● ●

English (C1) ● ● ● ● ●

German (C1) ● ● ● ● ●

EDUCATION

Electrical Engineer

Universidad Tecnológica del Centro

📍 Valencia, Venezuela

📅 Sep 2009 - Sep 2014

- Normal Period

E-Commerce Modernization with SvelteKit

E-Commerce |  Feb 2024 - May 2024

 Digago GmbH  3  Kanban

TypeScript SvelteKit Wordpress GraphQL Tailwind CSS

I supported the development of an online store with the goal to transform the Wordpress-based frontend into a stand-alone application that was created with SvelteKit. For this purpose, all frontend components were transformed into Svelte components and GraphQL was used to connect to the Wordpress and WooCommerce instance.

In addition, I developed and implemented a synchronization application that synchronized product information between four different systems to ensure data consistency and automatically correct discrepancies.

Fullstack Developer

Telecommunications |  Dec 2021 - Dec 2023

 Telefónica Germany GmbH & Co. OHG  16  Scrum

Spring Boot Spring WebFlux Java 17 JUnit Vue.js React TypeScript AWS EKS AEM Docker

In my role as lead developer, I applied the agile Scrum methodology in a team of 16 members. A focus of my work was on the agile full stack development of the O2 online shop. As part of the company's new IT transformation, I developed standalone systems, also known as self-contained systems.

My focus was on the conception and implementation of Proof of Concepts (PoC) in order to suggest improvements to the existing architectures. Additionally, I developed Micro Frontends (MFE) using VueJS and Backend for Frontend (BFF) using Spring Boot to increase the efficiency and scalability of the platform.

Fullstack Developer

Recreational Sports |  Aug 2022 - Currently

 Matdienst  1  matdienst.de

Spring Boot GraphQL MySQL Next.js React Tailwind CSS Docker Redux TypeScript AWS Route53 AWS S3 AWS EC2 AWS IAM AWS CloudWatch AWS CloudFormation AWS XRay

I independently developed and implemented a multi-tenancy system called "Matdienst", which allows football clubs to assign organizational tasks such as material management and a catalog of penalties. I made all architectural and technical decisions and worked as a full stack developer, including backend, frontend, testing, containerization and deployment. I also implemented a multi-tenancy structure that enables simultaneous use by different clubs. The application is now actively in use at a football club.

Fullstack Developer

E-Commerce |  Aug 2022 - Oct 2022

 Giglery  2  Scrum  giglery.com

Spring Boot MySQL Nuxt.js Vue.js TypeScript Docker Tailwind CSS

Cloud Architect

Motor Vehicle Construction |  Nov 2020 - Nov 2021

 Deloitte Consulting GmbH  8  Scrum

Spring Boot GitHub Actions Python AWS Lambda AWS CloudWatch AWS Step Functions AWS CloudFormation AWS IAM AWS CodeBuild AWS CodePipeline AWS SNS AWS SQS AWS IoT Greengrass AWS Kinesis

In my role as a cloud architect at Volkswagen A.G, I contributed significantly to the development and implementation of a Smartfactory 4.0 solution for car production based on AWS IoT. A focus of my work was on requirements management and training key users. Additionally, I developed the business logic for IoT solutions on-premises using AWS Lambda and implemented ETL processes using AWS DataPipeline.

Another important aspect of my work was implementing continuous integration and continuous deployment (CI/CD) for cloud infrastructure projects using GitHub Actions. Furthermore, I designed and implemented the network and cloud resources using definition files in Terraform, which successfully implemented the "Infrastructure as Code" (IaC) concept. This extensive project experience in cloud architecture and development has further deepened my skills in designing and implementing state-of-the-art solutions.

Frontend & Mobile Developer

Sport & Fitness | 📆 Nov 2020 - Nov 2022

💻 suppme 🏃 4 🏆 Kanban 🌐 suppme.com

Nuxt.js Vue.js Tailwind CSS Flutter Dart

As a frontend and mobile developer in a team of four members, I actively participated in the development of new features in the frontend area of the project. My contribution included converting the existing web application into a mobile app using the Flutter framework and Dart programming language. A focus was on the design and implementation of user-friendly interfaces and functions for the mobile app.

I also seamlessly integrated APIs and backend services into the app to ensure smooth functionality. My close collaboration with the development team helped to successfully implement the requirements and design guidelines. This experience has significantly expanded my skills as a front-end and mobile developer and contributed to creating an efficient, user-centric mobile application.

Software Developer

Metal Industry | 📆 Nov 2019 - Oct 2020

💻 ABS Safety GmbH 🏃 15 🏆 Scrum 🌐 Lock Book - Draw

NestJS GraphQL React Redux AWS Cognito AWS S3 AWS IAM AEM TypeScript

As a software developer in a team of 15, I led the agile full stack development of the "LockBook Draw" software for ABS Safety GmbH. My focus was on project management of API development for tender texts and PDF offers, using NestJS, GraphQL and MySQL. In addition to software development, I successfully isolated frontend and backend applications using Docker. I contributed significantly to the cloud-based deployment on Amazon AWS and setting up an efficient CI/CD pipeline for the API and web application.

Another focus of my work was the design and implementation of the network and cloud resources using Terraform definition files, which implemented the "Infrastructure as Code" (IaC) concept. This project experience deepened my skills in modern software development, cloud and container technologies.

Junior Software Developer

Telecommunications | 📆 Oct 2018 - Oct 2019

💻 sipgate GmbH 🏃 10 🏆 Scrum

Spring Boot Spring MVC Java 17 JUnit Jest React Redux TypeScript GCP

As a junior software developer, I focused on the further development of product ideas and strategies. Integrating a CD/CI pipeline into Google Cloud with JenkinsX was a focus. Projects followed a results-oriented Scrum approach in short cycles. An outstanding project was the development of the "Account Management Service" to automate services for new employees. Additionally, I performed cloud-based work for containerized applications on Google Cloud using Kubernetes. The "LukeBot" automated the application process. These projects expanded my skills in cloud and agile development.