

Rodrigo Sebastián Félix Dizama

Bachelor's Degree in Mechanical Engineering | Backend, APIs & Cloud Integration

Lima, Peru | rodrigofelixdizama11@gmail.com | +51 939 678 593
linkedin.com/in/rodrigo-felix-dizama

Professional Summary

Mechanical Engineering graduate with experience developing and integrating enterprise applications at Metso using **Python, FastAPI, REST APIs, SQL Server, and Azure**. I have built internal solutions featuring **Microsoft Entra ID and JWT** authentication, integrations with **Microsoft Graph and SharePoint**, data processing pipelines, and frontend-backend architectures. I developed and deployed **MIRA** and **LARA**, platforms used to manage commercial proposals and resource planning. Ranked first in the 2025 Mechanical Engineering graduating class and hold a Cambridge-certified C2 level of English.

Professional Experience

Metso — Engineering Intern, FSE-LCS Proposals

Lima, Peru | 2025 – Present

- Designed and developed enterprise applications using **Python, FastAPI, React, TypeScript, and SQL Server**, translating business processes and domain rules into APIs, data models, and interfaces used by internal teams.
- Implemented **REST APIs** and integrations between internal applications and Microsoft services, including **Microsoft Graph, SharePoint, and Microsoft Entra ID**.
- Implemented token-based authentication and authorization using **JWT** and Microsoft Entra ID, integrating frontend and backend components within the corporate environment.
- Deployed and maintained solutions on **Azure App Service**, working with web applications, environment configuration, and SQL Server databases.
- Built **ETL pipelines and Python automations** to integrate information from files, SharePoint, and internal systems, reducing manual work and consolidating business data.
- Collaborated with business users, Operational Excellence, and IT to gather requirements, define technical solutions, and validate architecture, security, and integration decisions.

Selected Projects

MIRA — Enterprise Proposal Management Platform

Metso

- Designed and developed a web platform to manage the complete commercial proposal lifecycle using **React, TypeScript, FastAPI, and SQL Server**, exposing core functionality through REST APIs.
- Implemented corporate authentication with **Microsoft Entra ID**, JWT-based authorization, and integrations with **Microsoft Graph and SharePoint**.
- Deployed the solution on **Azure**, consolidating commercial data dating back to 2019 and replacing processes distributed across Excel and SharePoint with a centralized, auditable, and traceable platform.
- Managed more than **350 services** and approximately **590M USD** in historical proposal value. Recognized as a standout project within Metso Peru's internship program and selected as a finalist in its category at the *Metso Innovation Awards 2026*.

LARA — Resource Planning Platform

Metso

- Developed, in collaboration with Operational Excellence, an application to model and size workforce requirements, shifts, work fronts, and resources needed for field services.
- Designed the backend and data model using **FastAPI and SQL Server**, with a React/TypeScript frontend and integrations with corporate Microsoft services.
- Replaced a workflow based on Excel templates and email with a centralized application providing traceability and stronger information control.
- More than **180 services** have been sized through the platform, enabling workforce demand forecasting by period, region, and specialty.

Education

Pontifical Catholic University of Peru — Mechanical Engineering

Lima, Peru | Class of 2025

- B.Sc. in Mechanical Engineering. **Ranked first in the graduating class** and within the top 1
- Thesis — Background-Oriented Schlieren (BOS)**: developed an experimental and computational methodology in Python for image processing and thermal-field reconstruction; work presented at the *10th International Combustion Institute Winter School*, UNICAMP, Brazil.

Technical Skills

Backend APIs: Python, FastAPI, Django REST Framework, REST APIs, OpenAPI/Swagger. **Cloud Integration**: Azure, Azure App Service, Microsoft Graph, SharePoint, Microsoft Entra ID, JWT.

Data: SQL, SQL Server, pandas, ETL, data modeling. **Frontend Development**: React, TypeScript, Git, testing, and version control.

Automation: Python, VBA, advanced Excel, and Power Query.

Languages: English — C2 Cambridge (201/210).