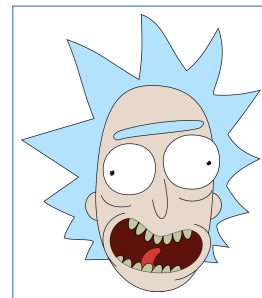


# Rick C-137

AI Engineer

Dimension C-137  
1111111111  
rick.sanchez@c137.com  
in xxxx  
pcoder93



## Professional Experience

- 07.2022 – Present **Full Stack Developer - Data Science, E Corp, None**  
Led development of an AI powered defect detection system for industrial machines.
- Led the development of a Python backend for the AI based quality monitoring system, focused on defect detection and segmentation, from POC to MVP.
  - Create and deploy deep learning models for anomaly segmentation and classification.
  - Optimize and quantize models for edge devices with limited compute including Nvidia and alternative inference hardware platforms such as Hailo and Intel openVino.
  - Designed ETL pipelines for high-volume image data, encompassing data recording, labeling, ingestion, and versioning.
  - Build and maintain cloud infrastructure for MLOPs and CI/CD
- 06.2021 – 06.2022 **Intern Data Scientist, E Corp, None**  
Showcased a POC for predictive maintenance of industrial machines.
- Conducted Master's Thesis on Outlier Detection and Condition Monitoring in Sensor Data using Machine Learning approaches.
  - Created Data Acquisition Infrastructure for Predictive Maintenance POC.
  - Analyzed sensor data, emphasizing Unsupervised Machine Learning approaches using Scikit-learn and Pytorch.
- 10.2018 – 01.2020 **Business Development Manager, B Corp, None**
- 08.2016 – 09.2018 **Senior Executive - Marketing, Z Corp, None**

## Education

- 03.2020 – 06.2022 **Informatics, C-137 University**
- 05.2011 – 05.2015 **Control Engineering., C-137 University**
- 06.2012 – 05.2015 **Computer Engineering., C-137 University**

## Skills

Cloud	AWS, Aliyun(Alicloud), Azure, Cloudflare
Programming	Python, R, Bash, Docker, Git, Rust, Powershell, Typescript
Databases	PostgreSQL, MongoDB, Redis, TimescaleDB, SQLite
Machine Learning	Pytorch, Scikit-learn, Tensorflow, Huggingface, Scipy
MLOps	ClearML, Mlflow, AWS Sagemaker
Image Processing	Pillow, OpenCV, Albumentations

# Data Wrangling Pandas, Numpy

Visualization   Matplotlib, Seaborn, Grafana, Plotly, PowerBi, Tableau

Projects

10.2020 – 01.2021 **Organic Food Product Label Classifier**, *None*

None

- Trained YOLO V4 Object Detector for logo identification.
- Optimized the model for Android for real-time inference using TensorFlow Lite.
- Created a web application using the Python Flask framework.

08.2020 – 12.2020 **Service-oriented application for Smart factory environments using OPC-UA, *None***

None

- Showcased an application using service-oriented architecture and OPC-UA for smart factory environments.
- Key Technologies and Software: Siemens TIA Portal, Mitsubishi MELFA BASIC IV, OPC-UA, Python, SQL.

07-2014 - 05-2015 **Bachelor Thesis - Automatic drink dispenser**, *None*

None

- Showcased an application using service-oriented architecture and OPC-UA for smart factory environments.
- Key Technologies and Software: Siemens TIA Portal, Mitsubishi MELFA BASIC IV, OPC-UA, Python, SQL.

## Participations & Awards

2022 Scholarship

2022 Agile Practitioner

— Languages

English C2

German B1

**Rick C-137**

*Dimension C-137*

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✉ [rick.sanchez@c137.com](mailto:rick.sanchez@c137.com)

**Portal Inc.**  
*Central Finite Curve*

January 24, 2025

Dear Hiring Manager,

I am excited to apply for the Senior Software Engineer position at Potal Inc. With extensive experience in Full Stack Development and Data Science, I am eager to contribute to your team.

In my previous role at B Corp, I spearheaded the development of an AI-powered defect detection system for industrial machines. This project involved designing and deploying advanced image recognition algorithms that significantly enhanced production efficiency. My expertise in rapid prototyping enabled me to develop prototypes and minimum viable products, which accelerated project timelines and validated innovative solutions.

I have a strong background in managing development environments and field deployments. I led the deployment of test systems for SOTA AI based quality monitoring system, developed tools for dataset management, and integrated QMS with a Docker-based solution, enhancing workflow efficiency.

I possess strong proficiency in web technologies, including Python, TypeScript, and Docker, and I have hands-on experience with AWS and Kubernetes. My expertise aligns seamlessly with Potal Inc.'s technology stack, and I am committed to enhancing code quality and engineering practices.

I am enthusiastic about joining Potal Inc. to help revolutionize the industrial sector with AI technology. Thank you for considering my application. Yours Sincerely,

**Rick C-137**