

# ARCANGELO ALBERICO

Full Stack Developer | Data Engineer | ML & AI Engineer

Age: 29

📍 Bologna

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🌐 arclk.dev

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## EXPERIENCE

### Full Stack Developer & Data Engineer

Iconsulting S.p.A.

📅 Nov 2021 – Ongoing

📍 Bologna, Italy

- Design and develop full-stack web applications using FastAPI, Python, SQL, and Angular for analyzing and classifying sales of manufacturing products based on historical data, enabling data-driven decision-making. Deployed the web application with a CI/CD on AWS Elastic Beanstalk, ensuring secure and scalable hosting.
- Develop a middleware system for seamless communication and data synchronization between two systems, utilizing AWS SQS for message queuing, AWS Lambda functions for event-driven computation, and AWS DynamoDB for storing and enriching data based on the middle-ware's information. Used Terraform for provisioning and managing the AWS infrastructure as code, ensuring consistent and reproducible deployments.
- Implement efficient data integration and data engineering solutions with ETL workflows using Talend Data Studio, Talend Cloud, and Talend Data Stewardship, ensuring seamless merging, cleaning, and reconciliation of manufacturing data from various sources to improve data quality.

### Internship

Engineering Ingegneria Informatica S.p.A

📅 April 2017 – Sept 2017

📍 Napoli, Italy

Develop Smartroad, a web application using Angular as client-side and Spring as server-side frameworks, which calculates incidentality indices before and after a maintenance work on a road section.

## EDUCATION

### M.Sc. in Artificial Intelligence

Alma Mater Studiorum – Università di Bologna

📅 Oct 2019 – Oct 2021

Thesis title: A Neurosymbolic Framework for Markov Logic Networks

Mark: 110/110 cum laude

### Artificial Intelligence: Algorithms and Applications

Nankai University, China

📅 July 2021

Online Summer School Program focused on Machine Vision and Medical Robotics

### B.Sc. in Computer Engineering

Università degli Studi di Salerno

📅 Sept 2014 – Sept 2017

Thesis title: Sviluppo di una Web Application per il calcolo degli indici di incidentalità di tratte stradali

Mark: 110/110 cum laude

### High School Diploma

Liceo Scientifico Federico Quercia, Marcianise (CE)

📅 Sept 2009 – July 2014

Mark: 100/100

## CERTIFICATIONS

AWS Certified Developer - Associate

## PROJECTS

I realized several projects during my university career or free time available on my Github. Among them:

- PyTorch implementation of a neurosymbolic framework that integrates neural networks with Markov Logic Networks.
- A NetLogo implementation of the SEIQR epidemiological model for studying the evolution of the COVID-19 epidemic.
- An object detection systems to identify single and multiple instances of products in given scene images.
- Text mining analysis on clickbait titles, aiming to identify the causes and patterns that make a title a clickbait.
- Solving the Perfect Weighted Packing (PWP) problem, which involves packing a set of rectangles into a strip without overlapping.

## PERSONAL SKILLS

Team work, perseverance, problem solving, communication, critical thinking

## TECHNICAL SKILLS

Languages: Python JavaScript R  
C Java C# Scala Prolog SQL  
HTML PHP CSS  $\text{\LaTeX}$

Artificial Intelligence: Pytorch Tensorflow

Web Development: FastAPI Angular

React .NET

Cloud Computing: AWS Services Terraform

## LANGUAGES

Italian - Mother tongue

English - IELTS 7.0 (C1)

