Andrea Lombardo

Summary

Data engineer and architect with 2 years of experience in building and maintaining data solutions for various industries. Strong expertise in Python, Docker, AWS, Kubernetes, Spark, Elasticsearch, MongoDB, Bitbucket, Bamboo, and Atlassian Suite. Proficient in data modeling, data analysis, and machine learning. Experienced in mentoring and training new employees. Welcoming new members and volunteers, providing them with information about the association's activities and how to participate

Skills

- Data engineering: Design, develop, and maintain data pipelines and architectures

- Data analysis: Extract, transform, and load (ETL) data from various sources, analyze data using Python and SQL, and create dashboards and visualizations

- Machine learning: Build and train machine learning models to predict outcomes and solve problems

- Software development: Develop and maintain Python microservices, Power BI dashboards, and Power Apps

- Mentoring: Guide and support new employees in their learning and development

Publications & Appearance

- An industry 4.0 approach to large scale production of satellite constellations. The case study of composite sandwich panel manufacturing on ACTA ASTRONAUTICA

Experience

Enel Group (GDS)

Data Engineer and Architect Solution (11/2022-ongoing)

- Building business solutions for the Enel company hub

- Providing technical support and resolving software-related issues

- Creating backend Python microservices using FastAPI, SQLAlchemy ORM technologies, or ODM and Beanie

- Designing ETL pipelines for projects with Spark technologies

- Supporting the team in designing end-to-end solutions and development architectures

EY

Junior Information Technology Consultant (Staff 2 level) (12/2021-11/2022)

- Supporting the team in maintaining solutions and creating new solutions for client needs

- Onboarding new employees and providing training on company software

- Developing Python microservices for monitoring data using APIs (Azure or Prometheus)

- Creating responsive dashboards with PowerBI

- Covering the role of Data architect for building kappa and lambda architecture within GCP provider tools

- Supporting the implementation of Metaverse experiences using platforms like AltspaceVR, Roblox, and Decentraland

STEM Tutor

STEM Tutor (10/2021-ongoing)

- Provided one-on-one tutoring in Statistics, Computer Science (AI project), and Maths-Physics
- Developed personalized lesson plans tailored to each student's needs and goals
- Assisted students in achieving their goals through guidance and support

Education

Master's Degree in Engineering in Computer Science at La Sapienza (23/02/2019-20/10/2021)

- Thesis: Ruag panel satellites in Smart Manufacturing: Analysis and Prediction (110/110)

Bachelor's Degree in Engineering in Computer Science at Tor Vergata (2014–22/02/2019)
Liceo Scientifico Cavour (2009 − 2014)