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# Çağatay Yağmur

Full Stack Data Engineer

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Innovative Full Stack Data Engineer and AI Backend Developer with over 4 years of experience designing scalable Data Warehouse (DWH) architectures and deploying advanced machine learning models. Adept at bridging the gap between traditional enterprise BI (MS SQL, Power BI) and modern open-source data ecosystems (PostgreSQL, Apache Superset). Proven track record of architecting end-to-end ETL pipelines, managing cloud integrations, and embedding cutting-edge AI capabilities (LLMs, VLMs, Computer Vision) into production environments to drive data-driven decision-making.

## SKILLS

<b>Data Engineering &amp; BI</b>	PostgreSQL, MS SQL Server, Apache Superset, Power BI, ETL Pipelines, Complex SQL, Multi-tenancy
<b>AI &amp; Machine Learning</b>	PyTorch, LLMs, VLMs, OpenAI Whisper, Computer Vision (U-Net, DeepLabV3+), Semantic Segmentation, OCR
<b>Backend &amp; Infrastructure</b>	Docker, Workflow Orchestration (Airflow concept), APIs, FastAPI, Django Rest
<b>Programming Languages</b>	Python, SQL

## EDUCATION

<b>Master of Science in Satellite Communication and Remote Sensing</b> , <i>Istanbul Technical University</i>	July 2024 — Present
<b>Bachelor of Science in Geomatics Engineering</b> , <i>Istanbul Technical University</i>	Aug 2016 — Jan 2022

## BACHELOR THESIS

**Automatic Building Detection Using Very High Resolution Satellite Imagery** **Jun 2021**

*Domain: Applied Machine Learning & Computer Vision*

- Engineered semantic segmentation pipelines in PyTorch, conducting a comparative analysis between U-Net and DeepLabV3+ architectures for precise building footprint extraction.
- Developed an end-to-end data preprocessing workflow for the Massachusetts Buildings Dataset, establishing a strong foundational expertise in deep learning and AI model evaluation.

## TECHNICAL EXPERIENCE

**Full Stack Data Engineer** **Nov 2023 — Feb 2026**  
*BIS Solutions* *Istanbul, Turkey*

- Designed and developed end-to-end Data Warehouse (DWH) and ETL pipelines utilizing MS SQL Server and Power BI for enterprise data modeling and reporting.
- Engineered AI-powered backend solutions for advanced document understanding and data extraction, integrating OCR, Vision Language Models (VLMs), and LLMs.
- Engineered fully open-source DWH solutions utilizing PostgreSQL and Apache Superset, managing backend orchestration across both cloud and on-premises deployments.

**AI Backend Engineer** **Sep 2021 — Jun 2023**  
*Infinidium Tech* *Istanbul, Turkey*

- Spearheaded the research, evaluation, and selection of state-of-the-art machine learning models to address specific backend requirements and business needs.
- Engineered and deployed pre-LLM AI architectures, seamlessly integrating early vision and speech capabilities into production environments.
- Developed robust Optical Character Recognition (OCR) pipelines using Vision APIs and implemented accurate Speech-to-Text functionalities utilizing OpenAI's Whisper model.

## CERTIFICATES

Trendyol Data Management Bootcamp by Coderspace	Oct 2023
Microsoft Certified: Azure Data Fundamentals	Oct 2023
Paycore .Net/ .Net CORE Bootcamp by Patika	Sep 2022
Mobile Application Development with Flutter Course by BT Academy	Jul 2022