



ALEKSANDAR TRENCHEVSKI

Backend engineer



Profile



15.01.1996



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<https://trencho.github.io/>



Certificates

AI-Code Synthesis-Core Skills

Encora

Issued Dec 2024

Databricks Certified Data Engineer Associate

Encora

Issued Feb 2025



Education

Master of Electrical Engineering and Information Technologies

Thesis: "Design, implementation and assessment of a system for monitoring atmospheric impacts and predicting air pollution"

Ss. Cyril and Methodius University of Skopje

2018 - 2021

Bachelor of Electrical Engineering and Information Technologies

Thesis: "Web system for collecting and processing data for student services"

Ss. Cyril and Methodius University of Skopje

2014 - 2018



About Me

Hardworking and detail-oriented software engineer with 7 years of experience in designing and implementing RESTful APIs, integrating third-party services, and ensuring adherence to coding standards. Proficient in containerization technologies, CI/CD pipelines, and version control systems. Possesses a strong background in software development, with a Master's degree in Electrical Engineering Technology.



Work Experience

JAVA SOFTWARE ENGINEER

ENCORA INC. 14 MARCH 2023 - ONGOING

Skopje, Macedonia

CLIENT: HISCOX

INDUSTRY: INSURANCE COMPANY

Built efficient ETL pipelines for Hiscox Insurance Company using Azure Databricks and Apache Spark to ingest, transform, and validate data from multiple sources. Automated workflows and integrated with Azure Data Lake for scalable data storage and analytics.

TECHNOLOGIES:

Python, SQL, Databricks, Apache Spark, PySpark, Delta Lake, Unity Catalog, Spark SQL, Azure Data Factory, Data Lake Storage, Azure Blob Storage

BUILD TOOLS:

Databricks Asset Bundles

VERSION CONTROL:

Git, Azure DevOps

PROJECT MANAGEMENT:

Jira

CLIENT: BRANDWATCH

INDUSTRY: SOCIAL MEDIA

Brandwatch Social Media Management – developed applications and services for the "Publish" module where you can plan, create, and distribute your content.

TECHNOLOGIES:

Java, Spring Boot, Spring JPA, Spring Security, PostgreSQL, Docker, Kubernetes

BUILD TOOLS:

Gradle, Maven

VERSION CONTROL:

Git, GitHub

PROJECT MANAGEMENT:

Jira



Publications

Prediction of Air Pollution Concentration Using Weather Data and Regression Models
<http://dx.doi.org/10.25673/115729>



Languages

English - Full Professional proficiency
Serbian - Professional working proficiency
German - Limited working proficiency



Skills

INDUSTRY KNOWLEDGE

Programming Web Development
Machine learning Game Development
DevOps Shell scripting

PROGRAMMING LANGUAGES

Java Python

WEB FRAMEWORKS

FastAPI Flask Spring

DATABASES

MongoDB MySQL Oracle DB PostgreSQL

DEVOPS

Docker Kubernetes Nginx

TOOLS

Git GitHub GitHub Actions Gunicorn

Lombok Maven Postman Pytest

Swagger

DATA SCIENCE

Matplotlib NumPy Pandas Scikit-learn

DATA ENGINEERING

Apache Spark Azure Data Factory

Azure Blob Storage Databricks

Data Lake Storage Delta Lake PySpark

Spark SQL Unity Catalog

CLIENT: COX NETWORKS

INDUSTRY: TELECOMMUNICATIONS

Telecom Middleware Applications - These applications are part of a set of applications and services used to receive, process, and provide information from a Mobile Network Operator.

TECHNOLOGIES:

Java, Spring Boot, JDBC, JAX-RS, OracleDB

BUILD TOOLS:

Gradle

VERSION CONTROL:

Git, Bitbucket

PROJECT MANAGEMENT:

Jira

NETCETERA 01 DECEMBER 2021 – 14 MARCH 2023

Skopje, Macedonia

INDUSTRY: BANKING

PROJECT DESCRIPTION

Supporting the development of 3DS Secure Digital Payments using Java Spring Framework. Managing customer requests and assisting in mitigating any reported incidents.

TECHNOLOGIES:

Java, Spring Boot, Spring Batch, Hibernate, Microsoft SQL Server

BUILD TOOLS:

Maven

VERSION CONTROL:

Git, Bitbucket

PROJECT MANAGEMENT:

Jira



Personal projects

AIR QUALITY REST API

PROJECT DESCRIPTION

Flask RESTful API for training machine learning models used for predicting air quality

<https://github.com/trencho/air-quality-rest-api>

CRYPTO PROPHET

PROJECT DESCRIPTION

FastAPI RESTful API for training machine learning models used for predicting cryptocurrency prices

<https://github.com/trencho/crypto-prophet>

TASK MANAGER (BACKEND)

PROJECT DESCRIPTION

RESTful API built with Spring Boot for managing tasks

<https://github.com/trencho/task-manager-spring>

TASK MANAGER (FRONTEND)

PROJECT DESCRIPTION

Task management application built with Vue.js. It allows users to register, log in and manage their tasks efficiently

<https://github.com/trencho/task-manager-vue>

MEDICAL IT REVOLUTION 15 JULY 2018 - 01 DECEMBER 2021

Skopje, Macedonia

INDUSTRY: MEDICAL

PROJECT DESCRIPTION

Developing a medical application for hospitals in the Netherlands to provide admission of patients and scheduling examinations based on the patients diagnose. Supporting client requests and providing optimal software solutions.

TECHNOLOGIES:

Java EE, JDBC, IBM Db2, JavaServer Pages

BUILD TOOLS:

Maven

VERSION CONTROL:

SVN

PROJECT MANAGEMENT:

Jira