ALEKSANDAR TRENCHEVSKI

Backend engineer

Profile

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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

ENCORA INC. 14 MARCH 2023 - ONGOING

DATA ENGINEER

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

JAVA SOFTWARE ENGINEER

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