



# 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