

Burak Colak

Budapest, Hungary

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PROFILE

Data engineer with over 3+ years of experience specializing in audit-related automation, database management, and machine learning. Proficient in Python, SQL, and AWS, with a proven track record in optimizing data-driven processes. Passionate about leveraging data to drive decision-making and innovation.

WORK EXPERIENCE

MSCI

Oct 2023 – Present

Data Engineer

Budapest, HU

- Assist in cloud migration efforts, particularly with Oracle SQL databases and Google Cloud Platform services.
- Contribute to the development of CI/CD pipelines using Azure Pipelines, enhancing code deployment.
- Containerization and orchestration with Docker and Kubernetes to improve application deployment workflows and using Elasticsearch & Fluentd for logging, Grafana for monitoring.
- Aid in transitioning and optimizing data processes from Autosys to Apache Airflow.

Starschema (Contracted to BlackRock)

Sept 2022 – Sept 2023

Medior Data Engineer

Budapest, HU

- Spearheaded the development of multiple audit-related automation processes using Python.
- Designed intricate Snowflake procedures and facilitated API integrations.
- Developed and implemented a petabyte-scale data-driven audit system for financial records in Snowflake, improving accuracy by 95% and reducing audit time by 80% annually.
- Designed a REST API to automate data modification and creation.
- Crafted advanced SQL queries for the Snowflake platform.
- Crafted a Machine Learning model to find the best nutrition plan for professional athletes.
- Currently creating a booking platform using AWS for internal use. (Lambda, DynamoDB, APIGateway, S3)

Nokia

Jan 2022 - July 2022

Cyber Security Automation Engineering Trainee

Budapest, HU

- Designed a testing framework for security vulnerabilities in the Modular Private WiFi product, reducing security incidents by 30%.
- Worked with Cloud Native Communication software, Kubernetes, Docker, and Modular Private Wireless.
- Conducted malware scans for containers and penetration security testing.

EDUCATION

Budapest University of Technology and Economics (BME - VIK)

July 2024

BSc, Electrical Engineering

Budapest, HU

- Researching Transformer Based Online Multivariate Anomaly Detection Algorithm (Hitting Accuracy of %93+)
- Hungarian National Scientific Student Contest (TDK) **2nd** place in the Neural Network Category.

PROJECTS, CERTIFICATIONS, SKILLS & INTERESTS

United | Onboarding tool for teams

- Achievement: 1st place in a hackathon.
- Introduced an AI-driven feedback analysis for real-time insights.
- Technologies: Python, ReactJS, FastAPI, ML, MongoDB, AWS Lambda, DynamoDB, APIGateway

Skills: *Python, SQL, C/C++, AWS, Linux, API, Docker, ML, CD/CI, Data Warehousing, Project Management, ETL, Apache Airflow, Docker, Kubernetes, Elasticsearch, Fluentd, Golang*

Interests: Climbing, Electronics, AFS International, AI Innovations, Businesses.