

Alexander Mateides

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EXPERIENCE

Data Scientist

May. 2024 – Present

OmniCrane

Prague, Czech Republic

- Machine Learning and backend development focused on designing and integrating LLM & RAG pipelines
- Developed a RAG REST API microservice, utilizing custom reranking algorithms and knowledge graphs
- Fine-Tuned and deployed (as microservice) several open-source LLM models
- Created synthetic dataset with domain-specific knowledge used for ORPO fine-tuning

Data Science Intern

Mar. 2024 – Apr. 2024

OmniCrane

Prague, Czech Republic

- Learned basics of LLM fine-tuning and deployment

Exam Invigilator

Sep. 2022 – Mar. 2023

European Language Examination Centre

České Budějovice, Czech Republic

- Invigilating Cambridge English language exams

Rošťák

Eurotest

Sep. 2021 – Feb. 2022

České Budějovice, Czech Republic

- Constructing custom bed frames according to client's specifications

EDUCATION

Czech Technical University, Faculty of Information Technology

Prague, Czech Republic

BSc. Open Informatics - Artificial Intelligence

Sep. 2023 – Present

Gymnázium J. V. Jirsíka

České Budějovice, Czech Republic

Sep. 2018 – May 2023

PROJECTS

ascii-art | C++, Computer graphics

May 2024

- Developed a C++ application (with both CLI and GUI) that converts text into ascii-art images
- Designed different image filters such as Gaussian blur

SKILLS

Programming Languages: Python, C/C++, JavaScript, SQL, HTML/CSS, R

Frameworks: FastAPI, PyTorch, React, Material-UI

Developer Tools: Git, Docker, Jira, AWS/EC2, Sagemaker, Material MKDocs

Libraries: PyTorch, transformers, pandas, NumPy, Matplotlib, scikit, seaborn

Languages: Czech (native), English (CEFR C2), German (B1/B2)