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   *Budweis, Czech Republic*
- Invigilating Cambridge English language exams

Rošťák   Sep. 2021 – Feb. 2022
Eurotest   *Budweis, Czech Republic*
- Constructing custom bed frames according to client's specifications

EDUCATION

Czech Technical University, Faculty of Information Technology   Sep. 2023 – Present
BSc. Open Informatics - Artificial Intelligence   *Prague, Czech Republic*

Gymnázium J. V. Jirsíka   Sep. 2018 – May 2023
                                                                                         Budweis, Czech Republic

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)