

## SKILLS

<b>Programming Languages</b>	Python, C++, C, Bash, VBA, T-SQL
<b>Frameworks and Tools</b>	SQLAlchemy, Pydantic, FastAPI, MultiThreading, Pytest, Numpy, OpenCV, DeepFace, Keras, Tensorflow, Matplotlib, RabbitMQ, Alembic, Async, ANN, CNN, QT, Django, Rest API, Docker, React
<b>Concepts &amp; Paradigms</b>	Algorithms, OOP, Data Structures, Functional Programming, Dynamic Programming, Unit Testing, ML Algorithms, Linux, Virtual Machines, Data Analysis, Data Selection and Cross-Validation
<b>Database Knowledge</b>	MySQL, PostgreSQL, Snowflake
<b>Version Control</b>	Git, GitHub, GitLab
<b>Management Tools</b>	Jira, Trello, Confluence, Agile methodology, Scrum, Kanban
<b>Soft Skills</b>	Mentoring, Team Player, Independent Worker, Attention to detail, Analytical and logical thinking, Critical thinking, Time management, Adaptability, Communication, Openness to criticism, Creativity
<b>Languages</b>	Romanian (Native), English (B2 Certified)

## WORK EXPERIENCE

**Middle Python Backend Developer** 08/2022 — Present  
*Capgemini Engineering* Romania, Remote

- Conducted research for the usage of over 20 different models of LLMs, then presented the results to management
- Developed an efficient product based on multiple LLMs on two different platforms: Jupiter Notebook & BE Python server
- Implemented a configuration module for an AI product that allows ease of editing for a non-technical person
- Offered as a solution an abstract approach of development for a new micro-service that would later function as the base for future features & micro-services
- Conducted data migrations on two different databases, while taking into account over 100 different states of the data
- Refactored the base code of a smaller product, which increased overall performance
- Tested and fixed bugs from the BE side, as well as communicated with other teams regarding different possible solutions to a problem while taking UX into account
- Communicated with the team according to Agile methodology, providing feedback and updates when required

**VBA Developer Specialist** 10/2021 — 08/2022  
*DRÄXLMAIER Group* Romania, Satu-Mare

- Recreated third-party software using VBA to customize and automate workflows
- Created reports based on internal data and shared insights with the management team
- Refactored over 2 weeks of work into 3 hours of monthly/everyday tasks

**Master Data Analyst** 01/2021 — 10/2021  
*DRÄXLMAIER Group* Romania, Satu-Mare

- Improved the efficiency of tasks by 70% through VBA automation
- Worked closely with the business inside teams to ensure alignment of master data rules and the operations of the application
- Ensured quality of master data in key systems, as well as, development and documentation of processes with other functional data owners to support ongoing maintenance and data integrity

## PERSONAL PROJECTS

**Military Personnel Detection** [Github Link](#)

- Tools used: Python, OpenCV, Tensorflow, Keras, Numpy, Matplotlib, RetinaFace
- Inspired by the recent events in Ukraine, this ML model detects whether or not a person from a video or an image is military personnel. This can be used as a security measure inside a camera or a drone

**Face Emotion Detection** [Github Link](#)

- Tools used: Python, OpenCV, DeepFace
- ML Model that uses OpenCV and DeepFace to detect a face from a video or an image, and the current mood

**Cat Finder** [Github Link](#)

- Tools used: Python, UltralyticsYOLO Model, OpenCV, MultiThreading
- Having a cat that likes to hide, I've decided to create my product that uses self-made motion sensors and then detects with the help of YOLO's models if the frame has a cat, then keeps count in which room it has been last seen

## EDUCATION

**Bachelor of Mathematics and Computer Science**, *University of Babeş Bolyai*

2019 — 2023