Raban Ohlhoff

Architectural Designer M.Sc.

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SUMMARY

As a master's graduate in architecture, I am passionate about creating **thoughtful designs** and developing **practical solutions** through detailed analysis of complex challenges.

I am especially interested in the intersection of design and computer science. Through various projects, I have explored fields such as **machine learning**, **data science**, **parametric design** and **automation**, aiming to integrate theoretical concepts into practical applications. These experiences have reinforced my belief in the transformative potential of technology in design, and I am eager to continue advancing my skills and contributing to this exciting and evolving field.

EXPERIENCE

TDB Landschaft 10/2023 - Today
Architectural Designer Berlin, DE

- Concept development for project competitions
- Design, layout and rendering of landscape architecture projects
- Teamwork, communication skills, reliability and autonomy are of high importance

FabLab 01/2020 - 06/2022
Intern Brussels, BE

- Worked as a team member of a multidisciplinary workshop
- Extended my knowledge of various open-source software through training courses
- Developed independent multi-phase working and communication skills.

EDUCATION

Université libre de Bruxelles, Bruxelles, BE 09/2020 - 09/2023
Architecture Master
ECTS Grade A

Université libre de Bruxelles, Bruxelles, BE 09/2017 - 09/2020
Architecture Bachelor
ECTS Grade A

Beethoven-Gymnasium, Berlin, DE 07/2009 - 07/2015
2.1 German GPA Abitur

PROJECTS

Flatly Berlin 04/2024
Apartment Search Bot
Project Link

This project consists of a bot that instantly notifies users of new apartment listings in Berlin. It comprises two services: a **scraper** that monitors apartment websites, extracts listings, and stores them in an *SQL database*, and a **bot** that lets users set preferences like budget, size, and location to receive personalized updates. The modular design ensures *reliability*, *scalability*, and a seamless search experience.

SQL, Python, HTTPX, Telegram Bot API

Topological Graph ML 08/2023
Thesis
Project Link

Scope of this work was to apply **graph theory** and **machine learning** to architectural analysis, focusing on **energy efficiency**. A synthetic dataset, generated using automated space partitioning algorithms, integrates geometric, energetic and topological data. *Classification* and *regression* models are trained on the resulting **knowledge graphs** to assess predictive accuracy for energy efficiency.

Graph ML, PyTorch, DGL, Python

PROFILES

LinkedIn
GitHub
Kaggle
ResearchGate

TECHNICAL SKILLS

- Python ●●●●●
- Blender ●●●●●
- Inkscape ●●●●○
- Adobe Creative Suite ●●●●○
- Office Suite ●●●●○
- SQL ●●●●○
- NumPy ●●●○○
- Git ●●●○○
- Pandas ●●●○○
- HTML/CSS ●●●○○
- PyTorch ●●○○○
- FastAPI ●●○○○

INTERESTS

- Open Source
- Graphic Design
- Machine Learning
- Parametric Design
- Automation
- Programming
- 3D Modeling
- Linux

LANGUAGES

German
Native

English
Very Fluent

French
Very Fluent

REFERENCES

Eva-Maria Boemans
Founder of TDB Landschaft

Luka Gilic
Head of Competition Department

Gian Marco Paldino
Thesis Supervisor

Iris Oelschläger
Internship Supervisor