

# Mikołaj Gradowski

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mgradow.ski 🌐

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## EXPERIENCE

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### STU ERGO Hestia SA

Jul 2021 – Jan 2022

*Internship*

*Sopot, Poland*

- Developed and maintained data pipelines, reporting software, web scrapers, internal Python libraries.
- Automated various business processes.
- Implemented improvements across my office, e.g. version control, proper distribution of Python programs through an internal package repository, migrated from storing/exchanging data in MS Excel files to Apache Parquet.

### “Alternatywa” music club

Nov 2018 – Mar 2020

*Sound engineer*

*Malbork, Poland*

- Mixed audio during live performances — concerts, stand-ups, etc.
- Set up and tore down sound and lighting equipment.

### www.fabax.pl

Sep 2018

*Website design and implementation*

*Malbork, Poland*

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## EDUCATION

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### Gdańsk University of Technology

Oct 2019 – Jan 2023

*(expected)*

*Data Engineering, B.Eng.*

*Gdańsk, Poland*

- Full-time undergraduate studies in English.
- Lead by the *Faculty of Electronics, Telecommunication and Informatics*. The first four semesters also included classes at the *Faculty of Management and Economics*.

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## SKILLS

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SQL (Postgres, Oracle®, Hive™, SQLite, DuckDB, ClickHouse), Python, PyData stack (Pandas, NumPy, Scikit-learn, &c.), containerization (Docker, Podman), workflow management (Airflow), DBT, \*nix system administration, concurrent and async programming, cloud computing, computer networking, agile practices, version control Git, Git-Lab CI, low-level programming (C, Rust), Redis, MongoDB, Vim, Neo4j, ConTeXt/L<sup>A</sup>T<sub>E</sub>X

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## PROJECTS

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### Optical tracking for billiards

2020–

*Computer vision*

*hobby project*

- Aims to develop 3-dimensional optical tracking for statistical analysis of the sport.
- Short video of an early prototype — <https://youtu.be/fSLNEglZxrE>.

### Real-time fall detection

2021

*Computer vision*

*university project*

- Uses a fully-convolutional neural network to detect fallen people at >30fps.
- Brief demonstration — [https://youtu.be/xtDYDrC\\_Y38](https://youtu.be/xtDYDrC_Y38).
- Code — <https://github.com/mgradowski/aiproject>.

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## INTERESTS

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billiards, cooking, electronic music production, piano, road cycling, typography; computer algebra systems, computer networks, computer vision, machine learning, modern programming languages and tooling, operating systems, proof assistants and type systems