

# SZYMON KOŁAKOWSKI

Warsaw, Poland - Gdynia, Poland - Bristol, UK

☎ +48 736-663-666 ✉ [szymon.kolakowski@gmail.com](mailto:szymon.kolakowski@gmail.com) 💼 [szymon-kolakowski](#) 🎧 [s3gf4u17](#)

## Education

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**Warsaw University of Technology** - BofENG, Geoinformatics 10.2021 - 02.2025

*Thesis: Software for integration and synchronization of data from Mars rover sensors*

*Keywords: ROS, Linux, RPI, Lidar, Georadar, Spectrometer, Hyperspectral cameras, RTK, Leo Rover*

## Experience

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**Polish Academy of Sciences** - Junior Software Engineer 10.2021 - 02.2023

- Designed and implemented software tailored for historians, streamlining text extraction and translation processes from books. Established a comprehensive historical database from the extracted data. Development of a geanalological wiki system, interconnecting historical figures, their relationships, locations, and events to enhance existing sources like Wikipedia.

## Technical skills

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C++, C, Python, Matlab, JavaScript, SQL, CMake, GDB, Git, Linux, Make, OpenGL, RPI, STM32, Valgrind  
Django, React, Vue, PostgreSQL, Unity, Unreal, Docker, Selenium, Java, MongoDB, Redis, TypeScript, LLM

## Initiatives

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### Learning opportunities for students

- I took part in a two-week long bootcamp organised by Pit Radwar where I learned a lot about electronics, radiolocation, navigation, software engineering, embedded programming and testing.

### Geoinformatics science club

- Together with other students, we founded a Geoinformatics science club. The main focus of this group is photogrammetry, remote sensing, satellite navigation, spatial analysis and web mapping.

### Integration of microclimate sensors

- Together with researchers from the Warsaw University of Technology, I have integrated LAB-EL sensors in the astronomical observatory. These sensors are used to monitor the microclimate in laboratories. This project will help to keep the measuring instruments in an optimal environment.

## Languages

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Polish (Native), English (Fluent), French (Basic), Russian (Conversational)