

Jakub Pudelko

BIOINFORMATICIAN



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<https://jpudelko-main.github.io>

Objective

To obtain a challenging data scientist position at an innovative organization where I can further develop my skills.

Experience

Bachelor's thesis | Comparative analysis of the *spv* operon in the *Salmonella* genus and other pathogenic bacteria: synteny, conservation and organization of genes in the genome. | Written under Dr. Grzegorz Grabe guidance. 2025

- Obtaining genome sequences by writing a Python script that utilizes NCBI-BLAST Common URL API.
- Multiple sequence alignment using ClustalO tool.
- Visualization of whole gene conservation among target organisms using Venn diagrams.
- Generating reference gene expression products using AlphaFold 3 Serwer.
- Synteny analysis using webFlaGs.

Lab Internship under Dr. Tomiczek (Department of Biotechnology UG-GUMED) 2025

- Learning theory regarding Next Generation Sequencing (NGS).
- Conducting gel electrophoresis.
- Creating filogenetic trees using different methods.
- Isolation of plasmid DNA from *E. coli* using an alkaline lysis.

Education

University of Gdańsk, Bioinformatics, Bachelor's degree 2022-2025

Previous employment

Tom Speed Technical Assessment of shipping containers	05.2024-> now
Hotel Puro, Kwadratowa, Klub Parlament Bartender	06.2023->11.2024
Sfinks 700 Barback	02.2022->05.2023

Skills & abilities

- Fluent English.
- Basic knowledge of Python and KNIME.
- Proficiency in GitHub.

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).