Jakub Pudełko

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.