



Max Van Puyvelde

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PROFILE

As a bioinformatics graduate student with a background in biomedical sciences, I am adept in developing software tools for the generation, analysis, and interpretation of biological data. With a strong proficiency in programming languages like Python and R, my dedication lies in crafting software solutions that empower the scientific community and advance human health.

EDUCATION

Ghent University

Ghent, Belgium

Master of Science in Bioinformatics, Minor in Computer Science

2022 – 2024

- Databases, Algorithms, Machine Learning, Modelling, High-throughput analysis, UNIX, OOP,...

Ghent University

Ghent, Belgium

Bachelor of Science in Biomedical Sciences

2019 – 2022

- **Thesis:** The development of cerebral organoids from stem cells using bioreactors.
- Physiology, Genetics, Biochem, Immunology, Microbiology, Epidemiology, Cell Biology, Anatomy,...

SKILLS

Programming Languages: Python, R, Bash, SQL (Postgres), HTML/CSS

Developer Tools: Git, Docker, Google Cloud

Libraries/Frameworks: Biopython, pandas, NumPy, Matplotlib, Folium, Flask

Bioinformatics Tools: Annovar, MHCflurry, Cutadapt, Cytoscape, BLAST, Clustal, ArrayExpress, Benchling, Chimera

Lab Skills: PCR, Western-Blotting, SDS-Page, ELISA, Mass Spectrometry, Gas Chromatography

Languages: Dutch (Native), English (Professional), French (Elementary)

EXPERIENCE

BioLizard

Ghent, Belgium

Bioinformatics Software Engineering Intern

July 2023 – Sept. 2023

- Developed a bioinformatics toolset for neoantigen prediction using ML models with integrated database.
- Features a user-friendly GUI and a versatile CLI, catering to both laboratory professionals and researchers.
- Collaborated with experts to validate and enhance the functionality and performance.
- Presented research findings and software capabilities to internal and external stakeholders.

Friesland Campina

Aalter, Belgium

Quality Control Analyst

July 2020 – Sept. 2020

- Physicochemical and microbiological analyses on dairy samples
- Collaborated with the quality control team to maintain high standards of product quality.

EXTRACURRICULAR ACTIVITIES

Ghent University

Ghent, Belgium

Representative of the IT Committee

2022-2024

- Overlooked security measures, system operations like MS Teams, HPC, and supervised BYOD policies.

Representative of the Bioinformatics Study Program

2022-2024

- Managed student applications, QA, and program modifications within the study curriculum.

Finalist at Open Sea Lab Hackathon | EMODnet

- Developed a windfarm placement analysis tool with proprietary datasets

Google Hashcode Hackathon | Google