

# 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

<b>Ghent University</b>	Ghent, Belgium
<i>Master of Science in Bioinformatics, Minor in Computer Science</i>	2022 – 2024
<ul style="list-style-type: none"><li>Databases, Algorithms, Machine Learning, Modelling, High-throughput analysis, UNIX, Drug Design,...</li></ul>	
<b>Ghent University</b>	Ghent, Belgium
<i>Bachelor of Science in Biomedical Sciences</i>	2019 – 2022
<ul style="list-style-type: none"><li><b>Thesis:</b> The development of cerebral organoids from stem cells using bioreactors.</li><li>Physiology, Genetics, Biochem, Immunology, Microbiology, Epidemiology, Cell Biology, Anatomy,...</li></ul>	

## SKILLS

**Programming Languages:** Python, R, Bash, SQL (Postgres), HTML/CSS  
**Developer Tools:** Git, Docker, Google Cloud, Power BI  
**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

<b>Galapagos</b>	Mechelen, Belgium
<i>Incoming Bioinformatics Intern</i>	July 2024 - Aug. 2024
<b>BioLizard</b>	Ghent, Belgium
<i>Bioinformatics Software Engineering Intern</i>	July 2023 – Sept. 2023
<ul style="list-style-type: none"><li>Developed a bioinformatics toolset for neoantigen prediction using ML models with integrated database.</li><li>Features a user-friendly GUI and a versatile CLI, catering to both laboratory professionals and researchers.</li><li>Collaborated with experts to validate and enhance the functionality and performance.</li><li>Presented research findings and software capabilities to internal and external stakeholders.</li></ul>	
<b>Friesland Campina</b>	Aalter, Belgium
<i>Quality Control Analyst Intern</i>	July 2020 – Sept. 2020
<ul style="list-style-type: none"><li>Physicochemical and microbiological analyses on dairy samples</li><li>Collaborated with the quality control team to maintain high standards of product quality.</li></ul>	

## EXTRACURRICULAR ACTIVITIES

<b>Everest Analytics</b>	Ghent, Belgium
<i>Data Consultant</i>	Jan. 2024 - Current
<ul style="list-style-type: none"><li>Non-profit student org working on impactful data projects for companies mentored by machine learning professionals.</li></ul>	
<b>Ghent University</b>	Ghent, Belgium
<i>Representative of the IT Committee</i>	2022-2024
<ul style="list-style-type: none"><li>Overlooked security measures, system operations like MS Teams, HPC, and supervised BYOD policies.</li></ul>	
<i>Representative of the Bioinformatics Study Program</i>	2022-2024
<ul style="list-style-type: none"><li>Managed student applications, QA, and program modifications within the study curriculum.</li></ul>	
<b>Finalist at Open Sea Lab Hackathon   EMODnet</b>	
<ul style="list-style-type: none"><li>Developed a windfarm placement analysis tool with proprietary datasets</li></ul>	
<b>Google Hashcode Hackathon   Google</b>	