

# KAI WALDRANT

BIOINFORMATICIAN - FREELANCE WEBDEVELOPER – TECH ENTHUSIAST

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🌐 <https://kwaldrant.github.io>

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## PROFILE

I am a bioinformatician with experience in data flow automation and analysis pipelines. Although my expertise is with genomics (NGS) I do not exclude proteomics or other disciplines. I'm interested in learning Machine Learning and AI. My background as a lab technician gives me an advantage in understanding where the data comes from and the expected outcome. I'm always looking for ways to update my skills and learning new ones e.g. software development.

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## SKILLS

### Languages

Mother Tongue: Dutch  
Fluent: English

### Programming skills and tools

Python, Perl, R, PHP, Linux (Bash)  
Git(hub), AWS, Flask, RShiny

### Web development

HTML5, CSS3, JS

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## EXPERIENCE

- **IT technician (Temp) @ GO! CVO Antwerpen, volwassenonderwijs**  
May 2022 – June 2022
- **Bioinformatician consultant @ Science talents**  
July 2021 – March 2022  
ZNA Middelheim (July 2021 – March 2022)
  - Automate data analysis for sars-cov-2 NGS.
  - Create Framework for sequencing data analysis (Python): pipelines, user frontend (flask).
  - Data management of sequencing data.
  - Implementation of Illumina MiSeq instrument.
- **Application Developer @ AML, Sonic Healthcare Benelux**  
November 2020 – July 2021
  - Develop application solutions (PHP).
  - Restart IT business after cyber-attack: Analyze and restore existing PHP/MySQL applications
- **IT technician (Temp) @ GO! CVO Antwerpen, volwassenonderwijs**  
September 2020 – October 2020
- **Bioinformatician @ Multiplicom, a part of Agilent Technologies**  
September 2018 – October 2020
  - Maintain and update existing and create new pipelines for data processing and analysis of sequencing data for R&D and ISO17025 environment (Perl, R & MySQL).
  - Troubleshooting pipeline issues.
  - Data backup in AWS.

- **Lab technician @ Multiplicom, a part of Agilent Technologies**  
May 2015 – October 2020
    - Setting up ISO17025 accredited laboratory (MASTR Facility).
    - Perform genetic testing on samples (multiplex PCR, DNA sequencing).
    - Validation of methods, equipment, and computerized systems
  - **Lab technician @ CMPG, Katholieke Universiteit Leuven**  
February 2013 – April 2015
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## EDUCATION

### **Advanced Bachelor Bioinformatics**

2017 – 2018

Hogeschool West-Vlaanderen, Rijselstraat, Brugge

Internship: Quality trending platform for Illumina MiSeq, MiniSeq and NextSeq instruments

Multiplicom, a part of Agilent Technologies

### **Post Graduate Bioinformatics @ Home**

2012 – 2015

Hogeschool West-Vlaanderen, Rijselstraat, Brugge

### **Bachelor Pharmaceutical and Biological Laboratory Techniques**

2009 – 2012

Plantijn Hogeschool, Department of Applied Science and Education, Antwerpen

Internship: synthesis and biological activity of new multi-target naphthalimide and bisnaphthalimide derivatives.

Robert Gordon University, School of Pharmacy and Life Science, Aberdeen, Scotland

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## INTERESTS

Apart from being a programmer and web developer, I am also an aspiring builder (Home renovation). My love for travel can be perfectly combined with acting as a photographer.

When forced indoors, I like to read fantasy books, love going to the cinema with my wife, be an aspiring chef, and spend some of my free time exploring the latest technology advancements (read: watching YouTube, reading articles and gaming).

But the most important interests are my lovely daughter and wife!

## AWARDS & CERTIFICATIONS

- ✓ Workplace first aid (Rode kruis) and evacuation steward
- ✓ BVLT vzw 2011-2012 for best thesis (Plantijn Hogeschool)