

# KAI WALDRANT

BIOINFORMATICIAN - FREELANCE WEBDEVELOPER –  
LAB TECHNICIAN – TECH ENTHUSIAST

- > Rodekruislaan 2, 2660 Hoboken
- > +32 478 43 58 25
- > [k\\_waldrant@hotmail.com](mailto:k_waldrant@hotmail.com)
- > 21 September 1988
- > Belgian
- > Driver's license B
- > <https://kwaldrant.github.io>



My interest in Science and Technology is the reason why I became a laboratory technician and later a bioinformatician. I am also a self-taught web developer creating websites in my free time.

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## EXPERIENCE

### Consultant

Science talents

July 2021 – present

Bioinformatician @ ZNA Middelheim (July 2021 – present)

- Help automate data analysis for sars-cov-2 NGS.
- Create Framework for sequencing data analysis (python): pipelines, user frontend (flask)
- Data management of sequencing data.
- Help with implementation of Illumina MiSeq instrument.

### Application Developer

AML, Sonic Healthcare Benelux

November 2020 – July 2021

- Develop application solutions (PHP).
- Create new website with Umbraco technology.

- Restart IT business after cyber-attack:  
staging new laptop/ create new network plan for labs/  
patching networks/ ...
- Analyze and restore existing PHP/MySQL applications (cyber-attack).

## **IT support (Temp)**

September 2020 – October 2020

GO! CVO Antwerpen, volwassenonderwijs

- Update and stage desktops in Azure environment.
- Install new equipment (desktops, printers, AP's, ...).

## **Bioinformatician**

September 2018 – October 2020

Multiplicom, a part of Agilent Technologies

- Programming pipelines for ISO17025 and R&D projects
- Troubleshooting pipeline issues.
- Maintain and update existing pipelines for data processing and analysis of sequencing data.
- Data backup in AWS.

## **Lab technician – MASTR Facility**

May 2015 – October 2020

Multiplicom, a part of Agilent Technologies

- Setting up ISO17025 accredited laboratory.
- Perform genetic testing on samples (multiplex PCR, DNA sequencing).
- Perform quality control testing.
- Validation of methods, equipment and computerized systems.
- Ordering and maintenance of equipment and consumables.
- Responsible for temperature logging and alarm intervention.
- Automation.
- New personnel training.
- Customer support.

## **Lab technician – Center for Microbial and Plant Genetics**

February 2013 – April 2015

Katholiek universiteit Leuven, Heverlee

**Lab technician – Abroad**  
University of Washington, Seattle

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May 2014

## EDUCATION

**Quality trending platform for Illumina MiSeq,  
MiniSeq and NextSeq instruments**  
Multiplicom, a part of Agilent Technologies

Internship 2018

**Advanced Bachelor Bioinformatics**  
Hogeschool West-Vlaanderen, Rijselstraat, Brugge

2017 – 2018

**Post Graduate Bioinformatics @ Home**  
Hogeschool West-Vlaanderen, Rijselstraat, Brugge

2012 – 2015

**Thesis: synthesis and biological  
activity of new multi-target naphthalimide and bisnaphthalimide  
derivatives.**  
Robert Gordon University, School of Pharmacy and Life Science, Aberdeen, Scotland

Internship 2012

**Pharmaceutical and Biological  
Laboratory Techniques**  
Plantijn Hogeschool, Department of Applied Science and Education, Antwerpen

2009 – 2012

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## SKILLS

### Languages

- Mother tongue: Dutch
- Fluent: English

### Programming languages & Tools

Web development

HTML5, CSS3, JavaScript, PHP, Bootstrap, Flask

Bioinformatics programming

Linux, Perl, Python, R, Rshiny

Tools

Visual Studio Code, Github, AWS

## Web development projects

- ✓ <https://kwaldrant.github.io/>
  - ✓ <https://madambloem.be> (under development)
  - ✓ <https://michaelschackmusic.com>
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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 a large amount of my free time exploring the latest technology advancements (read: watching YouTube, reading articles and gaming).

As for sports I try to bike to work and keep up with my personal training. If time permits (home renovation), I would like to start bouldering again.

## AWARDS & CERTIFICATIONS

- ✓ Workplace first aid (Rode kruis) and evacuation steward
- ✓ BVL1 vzw 2011-2012 for best thesis (Plantijn Hogeschool)