KAI WALDRANT
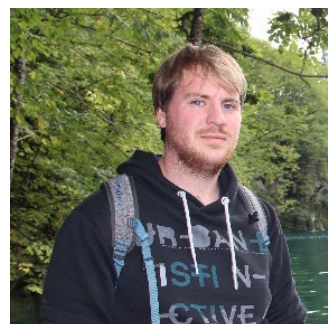
BIOINFORMATICIAN - FREELANCE WEBDEVELOPER – TECH ENTHUSIAST

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🌐 https://kwaldrant.github.io

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 also have a keen interest in LIMS, lab automation, 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.

EXPERIENCE

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: staging new laptop, create new network plan for labs, patching networks, Analyze and restore existing PHP/MySQL applications

IT support (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.
- 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

- o **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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SKILLS

Languages
- Native language: Dutch
- Fluent: English

Programming languages & Tools
Bioinformatics/application programming
Linux, Perl, Python, R, Rshiny, Flask, PHP

Web development
HTML5, CSS3, JavaScript, Bootstrap

Tools
Visual Studio Code, Github, AWS

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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).

But the most important interest is my lovely daughter!

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