

WILLEM VANHULLE

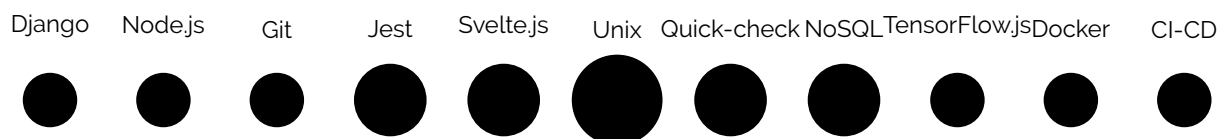
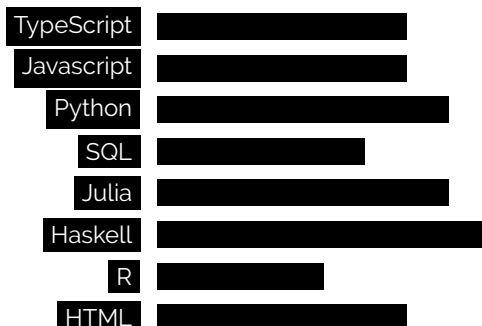
Full-stack Mathematician

📍 Ghent, Belgium
☎ +32 479 080 252

@ willemvanhulle@pm.me
🌐 github.com/wvhulle

WHO AM I?

Full-stack software and data engineer with a solid knowledge of statistics and neural networks. Additional knowledge of physics and biotech. Experienced in lecturing mathematics on all levels. Served in several coordinating volunteer roles. Clear, professional communicator.



EXPERIENCE

2021 – 2022
full-time

Full-stack Software Engineer

Specialty Carbohydrates Inbiose

Improves data analytics pipeline of a metabolic engineering lab. Learned biotech. and chemistry concepts. Designed, built backend and frontend for interactive, reactive data-intensive web applications.

VS Code / DBeaver / Neo4j / PostgreSQL / Git / Data modelling

2020 – 2021
part-time

Mathematics lecturer

Adult High-school Volt

Showed care, gave clear explanations and constructive feedback to foreign students. Wrote software to generate challenging problem sheets.

Python / SymPy / ~~TeX~~

EDUCATION

2019 – 2021

Master of theoretical physics (partial)

KU Leuven, Belgium

Data mining and deep learning, advanced stochastic Monte Carlo methods, general relativity, particle physics, analytical mechanics, quantum mechanics, solid state physics.

JavaScript / Matlab / Mathematica / Julia / PyTorch

2017–2019

Master of pure mathematics

KU Leuven, Belgium

Differential and Riemannian geometry, Riemann surfaces, operator algebras, group theory, algebraic topology, functional analysis.

Thesis: formalisation and verification of topological and algebraic mathematical proofs in a high-level functional programming language.

Haskell / Agda / Linux / Python

2013 – 2017

Bachelor of mathematics

VU Brussel, Belgium

Stochastic processes, commutative algebra, advanced data structures, numerical mathematics, mathematical statistics, databases.

SQL / Java / Lisp / R / Python

LANGUAGES

English - Professional
Dutch - Native
French - Professional
Chinese - Conversational
German - Conversational

HOBBIES

Long-distance solo backpacking, sci-fi books (Stephenson, Baxter) and social dancing (Forro, Swingrock, Kizomba, Bachata).

NON PROFIT

Helped international students with practical assistance, social events, photography and language exchange. Active on open source software communities.