

Dewell Guerand

Belgium | guerand22004@gmail.com | +32 476 82 08 04

github.com/DewellGuerand

Education

UCLouvain , BS in Engineering	Sept 2022 – June 2025
<ul style="list-style-type: none">• Major: Applied Mathematics, Minor: Computer Science• Graduated Cum Laude : 14.26/20	
Lycée de Berlaymont	Sept 2016 - June 2022
<ul style="list-style-type: none">• Graduated with honors	

Experience

Bartender , Belgium	Sept 2023 - Jan 2022
<ul style="list-style-type: none">• Managed drink inventory and ensured stock availability.• Delivered under high-pressure conditions.	
Private Tutor , Belgium	From September 2023
<ul style="list-style-type: none">• Provided mathematics and science lessons for middle school students.	
Intern , Engie	June 2022
<ul style="list-style-type: none">• Organized and classified work disability files for improved physician accessibility.	

Projects

GUI	github.com/SteedStone
<ul style="list-style-type: none">• Developed an API who can be downloaded to compute the payment needed by the bank for a loan• Tools: Python (Tkinter library)	
Energy Optimisation	
<ul style="list-style-type: none">• Designed a model to determine optimal wind turbine placements for precise energy production targets• Tools: Python	
Memory management	
<ul style="list-style-type: none">• Implemented a custom malloc in C for memory management based on specific allocation policies• Tools: C, bash	
Flight optimisation	
<ul style="list-style-type: none">• Created an API and the backend to compute the minimal distance required to reach a certain destination based on preference of the passenger• Tools: Python, Flutter (Dart)	
Full-stack e-commerce platform	
<ul style="list-style-type: none">• Full-stack e-commerce platform for French artisanal bakeries, built with Next.js, TypeScript, and PostgreSQL, featuring online ordering, real-time inventory management, and multi-location support• Tools: Next.js, TypeScript, PostgreSQL, Prisma	
Tracking a Lorenz particle	
<ul style="list-style-type: none">• Estimated the position of a Lorenz attractor particle over time using a particle filter for stochastic process analysis• Tools: Python	

Finite element project

- Developed a complete finite element analysis application for solving 2D linear elasticity problems in engineering structures with mesh generation, solver, and visualization components
- Tools: C, Python

Technical Skills

Languages: C, Java, Python, Oz, Assembly, Erlang, Bash, Dart

Software's: Git, Overleaf, MATLAB

Interests

Camp cook Managed meal preparation and food logistics for a large scout unit.

Hockey : Played hockey for over 15 years, balancing sports with academic responsibilities.

Langage levels

- **French :** C2 (Native speakers)
- **English :** C1
- **Dutsh :** B2