

# Charel Felten

Mersch, LU / Amsterdam, NL

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Passionate about analysing and solving problems, optimising processes, and building cool solutions that make life easier. My tools of choice are Python and its ecosystem, Swift for designing UIs and Cloudflare services for deployment.



## experience

### Riskquest / Zanders Group

Backend engineer and consultant for the Navigator SaaS platform

- Evolved the transaction classification and analytics engines into robust services among the best on the Dutch market and trusted by multiple corporate customers.
- Feature development, code reviews and bug fixes across the whole codebase.
- Ensured the success of our top client by aligning our development strategy with their needs, all the way from pilot phase to go-live of 25+ analysts now using our platform.
- Managed and coached 2 junior devs, interviewed prospects, and presented our platform on internal and external occasions.

Tech: *Python, FastAPI, Pydantic, MyPy, REST, PostgreSQL, SQLAlchemy, Git, Nomad*

Amsterdam, NL

October 2022 - current

(1y 11mos)

### Weisgerber & Fils (freelance)

Full-stack development job

- Developed a cloud-hosted repair-service integration, connecting with their existing website and offering a web-based platform to process incoming repair requests.
- Automatic generation and PDF export of the requests greatly reduces the workload of the user and streamlines the repair process and documentation.

Tech: *Cloudflare Pages, Cloudflare D1 (SQLite), Javascript, HTML*

Amsterdam, NL

October 2023 - January 2024

(4mos)

### Shell

Master's thesis research internship - accessible at [cfx.lu/thesis](https://cfx.lu/thesis)

- Researched and analysed a Dutch electricity market to develop an SDE model for simulating various aspects of interest and allowing the valuation and risk quantification of an energy asset using a real options approach.

Tech: *Python, Pandas, Numpy, Matplotlib*

Amsterdam, NL

November 2021 - July 2022

(9mos)

### Musée National d'histoire naturelle, University of Luxembourg

Various student jobs in IT departments

- Developed a few small web tools to improve the work-flow of researchers, such as a converter between coordinate systems in Excel sheets
- Automated the process of extracting information from Excel documents into XML format ready to be fed into the Genbank sequence database
- Developed a Wordpress website and scripts to import data from Google Sheets

Tech: *PHP, Wordpress, Excel*

Luxembourg, LU

August 2018, October 2018 - February 2019, June 2019,

(7mos)

# education

## University of Amsterdam

M.Sc. Computational Science - GPA 9/10 *cum laude*

Courses: *Computational Finance, Data Mining Techniques, Complex Systems, Agent-based Modelling, Stochastic Simulation, Bioinformatics*

Amsterdam, NL

2020 - 2022

## University of Luxembourg

B.Sc. Computer Science - GPA 8.7/10

Courses: *Software Engineering, Information Management, Security*

Belval, LU

2017 - 2020

## Sorbonne University

Licence informatique (Erasmus program)

Paris, FR

Spring 2019

# more

## Highlights

- Won the 2021 VU Data Mining Kaggle Competition [kaggle.com/c/2nd-assignment-dmt-2021](https://kaggle.com/c/2nd-assignment-dmt-2021).
- Developed and published a minimalistic note-taking app ([cfx.lu/remindme](https://cfx.lu/remindme)) and a sticker collage app ([cfx.lu/stickerpaste](https://cfx.lu/stickerpaste)) in the App Store.
- Developed an internal table tennis leaderboard website at Riskquest, deployed with Cloudflare Pages.
- Fought and won a legal arbitration against my phone operator regarding an unfairly elevated phone bill on the grounds of their non-compliance with the EU 531/2012 regulations.

## Technologies

- Python: Numpy, Pandas, FastAPI, Pydantic, MyPy, Django, SQLAlchemy
- Swift: SwiftUI, UIKit, iOS development
- Cloudflare: Workers, Pages, D1
- Experience in PHP, SQL, Ocaml, Javascript (React), Java, C, Git, Github, Gitlab, Nomad

## Languages

- Luxembourgish (native)
- German (fluent)
- French (fluent)
- English (fluent — Toefl IBT 110/120)
- Dutch (limited working proficiency)

This document is available online at [cfx.lu/cv](https://cfx.lu/cv)