Charel Felten

Amsterdam, NL
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github.com/charelf / linkedin.com/in/charel-felten

Education

University of Amsterdam & Vrije Universiteit Amsterdam
M.Sc. Computational Science

- Honors: cum laude (Grade 9.0/10)
- Courses: *Computational Finance, Data Mining Techniques, Complex Systems, Agent-based Modelling, Stochastic Simulation, Bioinformatics*

Amsterdam, NL
September 2020 – July 2022

University of Luxembourg
B.Sc. Computer Science

- Grade: 8.7/10
- Courses: *Software Engineering, Information Management, Intelligent Systems, Security*

Esch-sur-Alzette, LU
September 2017 – July 2020

Sorbonne University
Licence informatique

- *Exchange semester in the Erasmus program*

Paris, FR
January 2019 – May 2019

Professional Experience

Shell
Master's thesis research internship

- *Modeling various aspects of interest of a dutch electricity market*
- *Using machine learning to predict auction arrivals and volumes*
- *Valuation of an energy asset using a real options approach*
- *Risk quantification and sensitivity analysis*
- *Thesis viewable at cfx.lu/thesis*

Amsterdam, NL
November 2021 – July 2022

MENEJ Ministry of Education, Children and Youth
Substitute teacher in Kindergarten and primary school

- *Employed to satisfy higher than usual demand of school personal during the Covid-19 pandemic*

Mersch, LU
May 2020 – July 2020

MNHN National Museum of Natural History
Full-time summer student job in the informatics department

- *Developed multiple small web tools to improve the work-flow of employed researchers, such as a PHP tool to convert between coordinate systems in Excel sheets*
- *Automated the process of converting information from preexisting documents into XML format ready to be fed into the Genbank sequence database*

Full-time summer student job in the graphic design department

- *Created a brochure for an upcoming exposition*

Luxembourg, LU
June 2019

August 2015

University of Luxembourg   **Esch-sur-Alzette, LU**

Part-time student job in the computer science department

October 2018 –
February 2019

- *Continued development on a website for the Bachelor in Computer Science*
- *Wrote various PHP scripts to import and display existing data sourced from Google Sheets*

Full-time summer student job in the computer science department

August 2018

- *Developed a Wordpress website template for the Bachelor in Computer Science*

Interests & Skills

Various
- Winner of the 2021 VU Data Mining Kaggle Competition
  kaggle.com/c/2nd-assignment-dmt-2021
- Developed and published a minimalistic note-taking app in the App Store
  cfx.lu/remindme

Programming

Advanced knowledge in
- Python: NumPy, SciPy, Matplotlib, Pandas, Numba (5 years experience)
- Swift: SwiftUI, UIKit, iOS Development

Basic knowledge in
- Unix: bash, grep, sed
- PHP, SQL, Ocaml, Java, Javascript (React), C

Competencies
- Simulation and modeling (Monte Carlo, differential equations, ...)
- Quantitative and statistical analysis
- Machine learning and data science
- Software engineering and programming patterns
- Knowledge of risk management methods
- Git, Github
- iOS Development (SwiftUI and UIKit)

Languages
- Luxembourgish (native)
- German (fluent)
- French (fluent)
- English (fluent, Toefl IBT 110/120)