Alexandre CIRILO

https://alxdrcirilo.dev
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github.com/alxdrcirilo
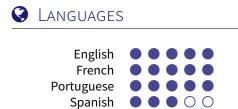Amsterdam, Netherlands
Born July 28th 1993

I have a background in Computer Science and Biochemistry. I love all things coding – on my free time, I develop open-source software of my own. I consider myself a critical person, always questioning the way of doing things, as well as being receptive to constructive criticism, and always eager to learn new concepts

☰ SKILLS

Programming languages	**Python**, **R**, JavaScript, Nextflow
Databases	PostgreSQL
Development tools	Visual Studio Code, PyCharm, RStudio
Operating systems	Linux (Fedora), Windows, macOS
Others	Bitbucket, Git, GitHub Actions, Jira

💼 EXPERIENCE

Today
September 2023

Software Engineer, KPN, Amsterdam
> Tech Talent Program
> Event-streaming

`Python` `JavaScript` `Visual Studio Code`

August 2023
October 2021

Bioinformatician, BASECLEAR, Leiden
> Standard and custom data analysis
> Development of tools and pipelines
> Data visualization and EDA (NumPy, Pandas, Matplotlib, Seaborn, ggplot2)
> Unit testing (pytest)
> Version control (git, Bitbucket)
> Running pipelines on HPC (High Performance Cluster)

`Python` `R` `Nextflow` `Visual Studio Code` `RStudio` `JIRA` `Bitbucket`

🌐 LANGUAGES

English	● ● ● ● ●
French	● ● ● ● ●
Portuguese	● ● ● ● ●
Spanish	● ● ● ○ ○
Dutch	● ○ ○ ○ ○

➕ STRENGTHS

> Can-do attitude
> Commited
> Curiosity-driven
> Enthusiastic
> Flexible

🎓 EDUCATION

2018 - 2021	M.Sc. in Computer Science	Faculty of Sciences, University of Leiden (the Netherlands)
2016 - 2018	M.Sc. in Biochemistry	Faculty of Sciences, University of Lisbon (Portugal)
2011 - 2016	B.Sc. in Biochemistry	Faculty of Sciences, University of Lisbon (Portugal)

🖥 PROJECTS

RAMACHANDRAW   2019 - 2020
🎧 github.com/alxdrcirilo/RamachanDraw   ☒ https://pypi.org/project/RamachanDraw/   RamachanDraw PyPI
RamachanDraw is a tool used to draw a Ramachandran plot based on the input PDB file. It makes use of a Gaussian KDE (kernel density estimation) to plot the density of favoured torsion angles (φ and ψ). This Python package has already been downloaded more than 13k times and cited in literature [Choudhuri 2022; Liang et al. 2022; Schuurs et al. 2023; Xiong et al. 2022].

`Python` `PyPI` `PyCharm`

HEX   2020
🎧 github.com/alxdrcirilo/hex
Built a Hex board game with Monte with an AI player using the Monte Carlo tree search (MCTS), a heuristic search algorithm.

`Python` `Visual Studio Code` `Reinforcement learning` `MCTS`

UNIGET   2022
🎧 github.com/alxdrcirilo/UniGet
UniGet is a tool written used to search, filter, and fetch records from the UniProt database.

`Python` `Visual Studio Code` `PyQt5`

CHECKERS   2023
🎧 github.com/alxdrcirilo/checkers
Currently working on building a checkers game with MCTS implementation and planning to use deep Q-learning to train a competitive model for an AI player based on the MCTS dataset.

`Python` `Visual Studio Code` `Reinforcement learning` `Alpha-beta pruning`

✺ CERTIFICATIONS

JavaScript Algorithms and Data Structures	**Issued:** January 2023	**Verification code:** freeCodeCamp
Back End Development and APIs	**Issued:** February 2023	**Verification code:** freeCodeCamp
Relational Database	**Issued:** June 2023	**Verification code:** freeCodeCamp