Alexandre CIRILO

https://alxdrcirilo.github.io

in linkedin.com/in/alxdrcirilo

github.com/alxdrcirilo

• Amsterdam, Netherlands

i 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

Python, R, JavaScript, Nextflow Programming languages

> Databases PostgreSQL

Visual Studio Code, PyCharm, RStudio Development tools Operating systems Linux (Fedora), Windows, macOS Bitbucket, Git, GitHub Actions, Jira Others



EXPERIENCE

Today September 2023

Software Engineer, KPN, Amsterdam

- > Hired through the Tech Talent Program
- > Event-streaming

Python JavaScript Visual Studio Code

August 2023 October 2021

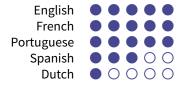
Bioinformatician, BASECLEAR, Leiden

- > 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



STRENGTHS

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

EDUCATION

2018 - 2021 M.Sc. in Computer Science 2016 - 2018 M.Sc. in Biochemistry 2011 - 2016 B.Sc. in Biochemistry

Faculty of Sciences, University of Leiden (the Netherlands) Faculty of Sciences, University of Lisbon (Portugal) Faculty of Sciences, University of Lisbon (Portugal)



RAMACHAN DRAW 2019 - 2020

f O github.com/alxdrcirilo/RamachanDraw f O 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

Back End Development and APIs

Relational Database

Issued: January 2023

Verification code: freeCodeCamp

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