Alexandre Cirilo

☑ https://alxdrcirilo.dev

in linkedin.com/in/alxdrcirilo

github.com/alxdrcirilo

• Amsterdam, Netherlands



I have a background in Computer Science and Biochemistry. I love all things coding – on my free time, I develop free open-source software (FOSS) 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, JavaScript/TypeScript, R, Rust

Frameworks FastAPI, Nuxt, Vue
Databases PostgreSQL, SQLite

Development tools Visual Studio Code, RStudio, Zed

Operating systems Linux, macOS, Windows

Others Bitbucket, Docker, Git, GitHub, GitHub Actions, Grafana, Jenkins, Jira, Kafka, Kubernetes, Sen-

try

EXPERIENCE

Today September 2023

Software Engineer, KPN, Amsterdam

- > Event-streaming (Kafka)
 - > Built a full-stack web application to handle malformed events that end up in dead letter queue (DLQ) Kafka topics and republish them to other topics
- > Backend development
 - > Addition of new features to the backend of kpn.com, as well as maintenance and monitoring

Python JavaScript/TypeScript

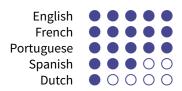
August 2023 October 2021

Bioinformatician, BASECLEAR, Leiden

- > Standard and custom data analysis
- > Development of custom tools and pipelines
- > Data visualization and analysis (NumPy, Pandas, Matplotlib, Seaborn, ggplot2)
- > Unit testing (pytest)
- > Running pipelines on a HPC (High Performance Cluster)

Python R Nextflow

LANGUAGES



+ STRENGTHS

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

EDUCATION

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



APPLE-HEALTH-PARSER 2024

github.com/alxdrcirilo/apple-health-parser

Python package to parse, analyse, and plot Apple HealthKit data.

Python Data processing Data visualisation

CHECKERS 2023

github.com/alxdrcirilo/checkers

Checkers game with alpha-beta pruning implementation for the AI player.

Python Reinforcement learning Alpha-beta pruning

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 Reinforcement learning MCTS

RAMACHANDRAW 2019 - 2020

f O github.com/alxdrcirilo/ramachandraw f O https://pypi.org/project/ramachandraw/ RamachanDraw PyPl 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 20k times and cited in literature [Choudhuri 2022; Liang et al. 2022; Schuurs et al. 2023; Xiong et al. 2022].

Python Bioinformatics

CERTIFICATIONS

JavaScript Algorithms and Data Structures

Back End Development and APIs

Relational Database

Issued: January 2023

Verification code: freeCodeCamp

Verification code: freeCodeCamp

Verification code: freeCodeCamp