



Ghent, Belgium  
 +32456369230  
 akasroua@disroot.org  
 akasroua  
 akasroua

# Amin Kasrou Aouam

*Computer Engineer interested in Data Science, Algorithmics, UNIX-based operating systems and Infrastructure as Code*

## Work Experience

**Application Support Agent,** October 2023 – July 2025  
Venthône, Brussels (Belgium).

- Level 2 support agent interfacing with relational databases via handcrafted SQL queries
- Investigation and resolution of issues concerning three applications related to payments for the European Commission (DIGIT)
- Effective communication with Level 1 Support and the development teams to resolve disruptions
- Creation of technical documentation, ITIL procedures and PL/SQL automation scripts

**System administrator (Freelance),** January 2021 – July 2021  
COACE, Ceuta (Spain).

- IT support and management of multiple Windows workstations
- Migration from a completely undocumented Ubuntu/Windows server to NixOS
- Deployment of a VPN, a cloud, DNS server and an automated backup solution

**IT consultant (Freelance),** April 2020 – September 2021  
Odyfo, Remote (Spain).

- Migrations of the MySQL database, to ensure consistency and performance
- Rewrite of the CRUD REST API to FastApi (Python)
- Administration of multiple EC2 instances in AWS

## Education

**Master, Bioinformatics (Engineering),** Universiteit Gent. 2021 – 2023

**Bachelor, Computer Engineering,** Universidad de Granada. 2017 – 2021

*Thesis* **Bachelor thesis:** Machine Learning for error correction in DNA sequencing data

*Courses* **Biology Meets Programming: Bioinformatics for Beginners:** University of California San Diego

**Python Programming:** Universidad de Granada

**Mobile apps programming for Android and iOS devices:** Universidad de Granada

**Arduino:** Universidad de Granada

## Technologies

**Programming languages:** Python, R, C++, Java, PHP, Shell scripting, PL/SQL

**Tools:** L<sup>A</sup>T<sub>E</sub>X, Git, SQL, ZFS, Docker, Nginx, Nix, Prometheus, Grafana, JIRA, Service Now

**Platforms:** Linux, FreeBSD, DragonFlyBSD, Android, NixOS

## Personal Projects

- Telegram bot to notify students of COVID-19 cases (Python)
- Declarative configuration of a home server and workstation (Nix)
- Open source contributions to NixOS (Nix)
- Temperature and humidity monitoring with MQTT (Arduino)

Languages	<b>English:</b> TOEFL (106/120)
	<b>Spanish:</b> Native
	<b>French:</b> Native
	<b>Arabic (Moroccan dialect):</b> Native