Amin Kasrou Aouam

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

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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 Comission (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

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: LaTeX, 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

English: TOEFL (106/120)

Spanish: Native

French: Native

Arabic (Moroccan dialect): Native