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WORK EXPERIENCE

Senior DevOps Engineer **Beyond You** **Mar 2023 - Present**

· Architected and implemented the backend and frontend for the Beyond You website, serving as the project's lead developer, including multilingual support, intranet and responsive design (**Django, React, Chackra, Zustand, Postgres**)
· Responsible for managing all server operations, ensuring security through firewall configurations and permissions, and overseeing high availability and monitoring (**Docker compose, Linux, nginx**)
· In charge of Amazon Web Services, and IBM Cloud. Migrated from AWS to IBM with a downtime of 40 seconds (**AWS CLI, Python, IBM, Sysadmin**)
· Fully automated the production pipeline, moving from a manual method and reducing the pipeline time from 10 days to 22 hours (**Django, Celery, Linux, Cloud Computing, monitoring**)
· Establish systems that guarantee data integrity and security while adhering to ISO 27001 standards

Senior Full Stack Engineer **BigML** **Dec 2021 - Mar 2023**

· Designed, trained and deployed production-grade ML solutions. Including a OCR model to detect real-time traffic toll prices from faulty signs (and notify of failures) and a traffic prediction tool to adjust in real time the toll price (**Lisp, Django, OpenCV, PHP**)
· Maintainer of legacy production code, upgraded the dependencies and added new features. Reduced query time from 30 seconds to 1.5 second (**Django, bash, PHP, docker**)
· Worked collaboratively as full stack developer on Accushoot. Implemented rankings based on different criteria, to compare yourself with your friends and the rest of the users (**Django, Vue, GIT**)
· Cleaned unused objects from a legacy MongoDB database and migrated the rest to Google Cloud (**MongoDB, Google Cloud**)

Telecommunications researcher **IMDEA Networks** **Sep 2016 - Dec 2021**

· Reverse-engineered firmware blobs of a embedded 60 GHz antenna from MikroTik routers to enable extra functionality (such as distance measurements), adapted the Linux drivers (**Ghidra, Python, ARC assembly, C, Linux Kernel**)
· Developed and deployed robust automation code to perform thousands of measurements with faulty hardware (**Python, MATLAB**)
· Worked closely with external developers to bring academic achievements to industry (Huawei)

LANGUAGES AND TECHNOLOGIES

· Skilled in Python, JavaScript and React. Work experience with SQL, R, Matlab, Java. Past Experience with C# and C++.
· Hands-on experience with AWS, Docker, Docker Compose, CI and CD systems (Gitlab CI/CD, GitHub), software lifetime management tools (e.g., JIRA), performance and profiling applications (perf, custom tools)
· English (fluent, C1); Spanish, Catalan (native)

EDUCATION

· PhD., M.Sc. in Telematics Engineering (Sep. 2016 - Dec. 2021)
· M.Sc. in Intelligent Systems (Sep. 2015 - Nov. 2016)
· B.S. in Computer Engineering (Sep. 2009 - Nov. 2015)
· B.S. in Computational Mathematics (Sep. 2009 - Nov. 2014)